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P1618P2C3 sequence listing.txt

Sequence Listing

<110> Chen, Jian
Goddard, Audrey
Gurney, Austin L.
Hillan, Kenneth
Pennica, Diane
Wood, William I.
Yuan, Jean

<120> Secreted and Transmembrane Polypeptides and Nucleic Acids Encoding the Same

<130> P1618P2C3

<140> US 09/903,806
<141> 2001-07-11

<150> US 09/665,350
<151> 2000-09-18

<150> PCT/US00/04414
<151> 2000-02-22

<150> PCT/US98/18824
<151> 1998-09-10

<150> US 60/062,287
<151> 1997-10-17

<160> 424

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<212> DNA
<213> Homo Sapien

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tggctgcagc tgaagagcga atatcctgac ttattcgagt ggttttgtgt 500
gaagacactg aaagtgtgct gctctccagg aacctacggt cccgactgtc 550

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P1618P2C3 sequence listing.txt

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<210> 2
<211> 353
<212> PRT
<213> Homo Sapien

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Page 2

P1618P2C3 sequence listing.txt

20 25 30

Cys His Arg Cys Arg Gly Leu Val Asp Lys Phe Asn Gln Gly Met
 35 40 45

Val Asp Thr Ala Lys Lys Asn Phe Gly Gly Gly Asn Thr Ala Trp
 50 55 60

Glu Glu Lys Thr Leu Ser Lys Tyr Glu Ser Ser Glu Ile Arg Leu
 65 70 75

Leu Glu Ile Leu Glu Gly Leu Cys Glu Ser Ser Asp Phe Glu Cys
 80 85 90

Asn Gln Met Leu Glu Ala Gln Glu Glu His Leu Glu Ala Trp Trp
 95 100 105

Leu Gln Leu Lys Ser Glu Tyr Pro Asp Leu Phe Glu Trp Phe Cys
 110 115 120

Val Lys Thr Leu Lys Val Cys Cys Ser Pro Gly Thr Tyr Gly Pro
 125 130 135

Asp Cys Leu Ala Cys Gln Gly Gly Ser Gln Arg Pro Cys Ser Gly
 140 145 150

Asn Gly His Cys Ser Gly Asp Gly Ser Arg Gln Gly Asp Gly Ser
 155 160 165

Cys Arg Cys His Met Gly Tyr Gln Gly Pro Leu Cys Thr Asp Cys
 170 175 180

Met Asp Gly Tyr Phe Ser Ser Leu Arg Asn Glu Thr His Ser Ile
 185 190 195

Cys Thr Ala Cys Asp Glu Ser Cys Lys Thr Cys Ser Gly Leu Thr
 200 205 210

Asn Arg Asp Cys Gly Glu Cys Glu Val Gly Trp Val Leu Asp Glu
 215 220 225

Gly Ala Cys Val Asp Val Asp Glu Cys Ala Ala Glu Pro Pro Pro
 230 235 240

Cys Ser Ala Ala Gln Phe Cys Lys Asn Ala Asn Gly Ser Tyr Thr
 245 250 255

Cys Glu Glu Cys Asp Ser Ser Cys Val Gly Cys Thr Gly Glu Gly
 260 265 270

Pro Gly Asn Cys Lys Glu Cys Ile Ser Gly Tyr Ala Arg Glu His
 275 280 285

Gly Gln Cys Ala Asp Val Asp Glu Cys Ser Leu Ala Glu Lys Thr
 290 295 300

Cys Val Arg Lys Asn Glu Asn Cys Tyr Asn Thr Pro Gly Ser Tyr
 305 310 315

Val Cys Val Cys Pro Asp Gly Phe Glu Glu Thr Glu Asp Ala Cys
 320 325 330

Val Pro Pro Ala Glu Ala Glu Ala Thr Glu Gly Glu Ser Pro Thr

P1618P2C3 sequence listing.txt
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Gln Leu Pro Ser Arg Glu Asp Leu
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gcagagtatc tgacggcgcc aggttgcgtta ggtgcggcac gaggagtttt 200
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gctcaccagg caagagtact cataggattt gaagaagata tcctgattgt 400
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agagaatgcc agctattcct gtcaatatcc attccatgaa ttttacctgg 500
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cctggataaa ggcatcatgg cagatccaaac cgtcaatgtc cctctgctgg 600
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aatgccaatg tcaagaaggt tggcatggaa gacactgcaaaataaaggat 1250
gaagccagcc tcatacatgc cctgaggcca gcaggcgccc agctcaggca 1300

P1618P2C3 sequence listing.txt
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cattacactt aagaataactg gcctgaattt tattagcttc attataaattc 1500
actgagctga tatTTactct tccttttaag ttttctaagt acgtctgttag 1550
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ataatg 2206

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<211> 379
<212> PRT
<213> Homo Sapien

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20 25 30
Pro Gln Glu Glu Ser Leu Tyr Leu Trp Ile Asp Ala His Gln Ala
35 40 45
Arg Val Leu Ile Gly Phe Glu Glu Asp Ile Leu Ile Val Ser Glu
50 55 60
Gly Lys Met Ala Pro Phe Thr His Asp Phe Arg Lys Ala Gln Gln
65 70 75
Arg Met Pro Ala Ile Pro Val Asn Ile His Ser Met Asn Phe Thr
80 85 90
Trp Gln Ala Ala Gly Gln Ala Glu Tyr Phe Tyr Glu Phe Leu Ser

P1618P2C3 sequence listing.txt

95

100

105

Leu Arg Ser Leu Asp Lys Gly Ile Met Ala Asp Pro Thr Val Asn
110 115 120
Val Pro Leu Leu Gly Thr Val Pro His Lys Ala Ser Val Val Gln
125 130 135
Val Gly Phe Pro Cys Leu Gly Lys Gln Asp Gly Val Ala Ala Phe
140 145 150
Glu Val Asp Val Ile Val Met Asn Ser Glu Gly Asn Thr Ile Leu
155 160 165
Gln Thr Pro Gln Asn Ala Ile Phe Phe Lys Thr Cys Gln Gln Ala
170 175 180
Glu Cys Pro Gly Gly Cys Arg Asn Gly Gly Phe Cys Asn Glu Arg
185 190 195
Arg Ile Cys Glu Cys Pro Asp Gly Phe His Gly Pro His Cys Glu
200 205 210
Lys Ala Leu Cys Thr Pro Arg Cys Met Asn Gly Gly Leu Cys Val
215 220 225
Thr Pro Gly Phe Cys Ile Cys Pro Pro Gly Phe Tyr Gly Val Asn
230 235 240
Cys Asp Lys Ala Asn Cys Ser Thr Thr Cys Phe Asn Gly Gly Thr
245 250 255
Cys Phe Tyr Pro Gly Lys Cys Ile Cys Pro Pro Gly Leu Glu Gly
260 265 270
Glu Gln Cys Glu Ile Ser Lys Cys Pro Gln Pro Cys Arg Asn Gly
275 280 285
Gly Lys Cys Ile Gly Lys Ser Lys Cys Lys Cys Ser Lys Gly Tyr
290 295 300
Gln Gly Asp Leu Cys Ser Lys Pro Val Cys Glu Pro Gly Cys Gly
305 310 315
Ala His Gly Thr Cys His Glu Pro Asn Lys Cys Gln Cys Gln Glu
320 325 330
Gly Trp His Gly Arg His Cys Asn Lys Arg Tyr Glu Ala Ser Leu
335 340 345
Ile His Ala Leu Arg Pro Ala Gly Ala Gln Leu Arg Gln His Thr
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Pro Ser Leu Lys Lys Ala Glu Glu Arg Arg Asp Pro Pro Glu Ser
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<211> 45

<212> DNA

<213> Artificial Sequence

P1618P2C3 sequence listing.txt

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<220>
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<400> 7
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<212> DNA
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<220>
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<210> 9
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<212> DNA
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<400> 9
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<210> 10
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<220>
<223> Synthetic Oligonucleotide Probe

<400> 10
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P1618P2C3 sequence listing.txt

<211> 2197
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<213> Homo Sapien

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<211> 164

<212> PRT

<213> Homo Sapien

<400> 12

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Leu	Ala	Pro	Gly	Leu	His	Leu	Arg	Gly	Ile	Arg	Asp	Ala	Gly	Gly
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Arg	Tyr	Cys	Gln	Glu	Gln	Asp	Leu	Cys	Cys	Arg	Gly	Arg	Ala	Asp
					50			55					60	
Asp	Cys	Ala	Leu	Pro	Tyr	Leu	Gly	Ala	Ile	Cys	Tyr	Cys	Asp	Leu
					65			70					75	
Phe	Cys	Asn	Arg	Thr	Val	Ser	Asp	Cys	Cys	Pro	Asp	Phe	Trp	Asp
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Phe	Cys	Leu	Gly	Val	Pro	Pro	Pro	Phe	Pro	Pro	Ile	Gln	Gly	Cys
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Met	His	Gly	Gly	Arg	Ile	Tyr	Pro	Val	Leu	Gly	Thr	Tyr	Trp	Asp
					110			115					120	
Asn	Cys	Asn	Arg	Cys	Thr	Cys	Gln	Glu	Asn	Arg	Gln	Trp	His	Gly
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P1618P2C3 sequence listing.txt

Gly Ser Arg His Asp Gln Ser His Gln Pro Gly Gln Leu Trp Leu
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Ala Gly Trp Glu Pro Gln Arg Leu Leu Gly His Asp Pro Gly
155 160

<210> 13
<211> 533
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<222> 33, 37, 80, 94, 144, 188
<223> unknown base

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cagagagata ccgccccat gggacccact cag 533

<210> 14
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<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 14
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<210> 15
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

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<210> 16
<211> 50

P1618P2C3 sequence listing.txt

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 16

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<210> 17

<211> 960

<212> DNA

<213> Homo Sapien

<400> 17

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gtggagaact gcacccagct gggggagcag tgctggaccg cgccgcattccg 150

cgcagttggc ctccctgaccg tcatcagcaa aggctgcagc ttgaactgcg 200

tggatgactc acaggactac tacgtgggca agaagaacat cacgtgtgt 250

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tgacttgagc caggtcttgtt ccgtgggtgc ccccgcaccc agcaggggac 750

aggcactcag gagggcccaag taaaggctga gatgaagtgg actgagtaga 800

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cctggaggcc tggaggaagg ggccaggcct cacattcggt gggctccctg 900

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gccaaaaaaaaa 960

<210> 18

<211> 189

<212> PRT

<213> Homo Sapien

<400> 18

Met Thr His Arg Thr Thr Trp Ala Arg Arg Thr Ser Arg Ala
1 5 10 15

P1618P2C3 sequence listing.txt

Val Thr Pro Thr Cys Ala Thr Pro Ala Gly Pro Met Pro Cys Ser
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Ser Gly Asp Pro Ala Ser Tyr Arg Leu Trp Gly Ala Pro Leu Gln
50 55 60
Pro Thr Leu Gly Val Val Pro Gln Ala Ser Val Pro Leu Leu Thr
65 70 75
Asp Leu Ala Gln Trp Glu Pro Val Leu Val Pro Glu Ala His Pro
80 85 90
Asn Ala Ser Leu Thr Met Tyr Val Cys Thr Pro Val Pro His Pro
95 100 105
Asp Pro Pro Met Ala Leu Ser Arg Thr Pro Thr Arg Gln Ile Ser
110 115 120
Ser Ser Asp Thr Asp Pro Pro Ala Asp Gly Pro Ser Asn Pro Leu
125 130 135
Cys Cys Cys Phe His Gly Pro Ala Phe Ser Thr Leu Asn Pro Val
140 145 150
Leu Arg His Leu Phe Pro Gln Glu Ala Phe Pro Ala His Pro Ile
155 160 165
Tyr Asp Leu Ser Gln Val Trp Ser Val Val Ser Pro Ala Pro Ser
170 175 180
Arg Gly Gln Ala Leu Arg Arg Ala Gln
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<210> 19
<211> 24
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 19
tgctgtgcta ctcctgcaaa gccc 24

<210> 20
<211> 24
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 20
tgcacaaggc ggtgtcacag cacg 24

<210> 21
<211> 44
<212> DNA
<213> Artificial sequence

P1618P2C3 sequence listing.txt

<220>
<223> Synthetic Oligonucleotide Probe

<400> 21
acaacgagg actgcctgca ggtggagaac tgcacccagc tggg 44

<210> 22
<211> 1200
<212> DNA
<213> Homo Sapien

<400> 22

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acctcaactt gtgcttacag ctgctgattc tctgctgtca aactcagtac 100
gtgagggacc agggcgccat gaccgaccag ctgagcaggc ggcagatccg 150
cgagtaccaa ctctacagca ggaccagtgg caagcacgtg caggtcaccg 200
ggcgtcgcat ctccgcccacc gccgaggacg gcaacaagtt tgccaagctc 250
atagtggaga cggacacgtt tggcagccgg gttcgcatca aaggggctga 300
gagtgagaag tacatctgta tgaacaagag gggcaagctc atcgggaagc 350
ccagcgggaa gagcaaagac tgcgtgttca cgagatcgt gctggagaac 400
aactatacgg ccttccagaa cgcggccac gagggtcggt tcatggcctt 450
cacgcggcag gggcgccccc gccaggcttc ccgcagccgc cagaaccagc 500
gcgaggccca cttcatcaag cgcccttacc aaggccagct gcccttcccc 550
aaccacgccc agaagcagaa gcagttcgag tttgtggct ccgcggccac 600
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tgccggccctc ccagccggc tcctgaagcc cgctgaaagg tcagcgactg 950
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tcggatctcc ctcagtctgc ccccgccccca aaaaactccctc ctggcttagac 1050
tgttaggaagg gactttgtt tgttgttg tttcaggaaa aaagaaaagg 1100
agagagagga aaatagaggg ttgtccactc ctcacattcc acgacccagg 1150
cctgcacccccc acccccaact cccagccccg gaataaaacc attttccctgc 1200

<210> 23
<211> 205

P1618P2C3 sequence listing.txt

<212> PRT
<213> Homo Sapien

<400> 23

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Leu Leu Ile Leu Cys Cys Gln Thr Gln Tyr Val Arg Asp Gln Gly
20 25 30

Ala Met Thr Asp Gln Leu Ser Arg Arg Gln Ile Arg Glu Tyr Gln
35 40 45

Leu Tyr Ser Arg Thr Ser Gly Lys His Val Gln Val Thr Gly Arg
50 55 60

Arg Ile Ser Ala Thr Ala Glu Asp Gly Asn Lys Phe Ala Lys Leu
65 70 75

Ile Val Glu Thr Asp Thr Phe Gly Ser Arg Val Arg Ile Lys Gly
80 85 90

Ala Glu Ser Glu Lys Tyr Ile Cys Met Asn Lys Arg Gly Lys Leu
95 100 105

Ile Gly Lys Pro Ser Gly Lys Ser Lys Asp Cys Val Phe Thr Glu
110 115 120

Ile Val Leu Glu Asn Asn Tyr Thr Ala Phe Gln Asn Ala Arg His
125 130 135

Glu Gly Trp Phe Met Ala Phe Thr Arg Gln Gly Arg Pro Arg Gln
140 145 150

Ala Ser Arg Ser Arg Gln Asn Gln Arg Glu Ala His Phe Ile Lys
155 160 165

Arg Leu Tyr Gln Gly Gln Leu Pro Phe Pro Asn His Ala Glu Lys
170 175 180

Gln Lys Gln Phe Glu Phe Val Gly Ser Ala Pro Thr Arg Arg Thr
185 190 195

Lys Arg Thr Arg Arg Pro Gln Pro Leu Thr
200 205

<210> 24

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 24

cagtacgtga gggaccaggg cgccatga 28

<210> 25

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

P1618P2C3 sequence listing.txt

<223> Synthetic Oligonucleotide Probe

<400> 25
ccggtgacct gcacgtgctt gccca 24

<210> 26
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<220>
<221> unsure
<222> 21
<223> unknown base

<400> 26
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<210> 27
<211> 2479
<212> DNA
<213> Homo Sapien

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gagacagcag ggagattatt ttaccatacg ccctcaggac gttccctcta 150
gctggagttc tggacttcaa cagaacccca tccagtcatt ttgattttgc 200
tgtttatttt tttttcttt ttcttttcc caccacattt tattttattt 250
ccgtacttca gaaatggcc tacagaccac aaagtggccc agccatgggg 300
ctttttcctt gaagtcttgg ctatcattt ccctggggct ctactcacag 350
gtgtccaaac tcctggctg ccctagtgtg tgccgctgctg acaggaactt 400
tgtctactgt aatgagcgaa gcttgacctc agtgcctttt gggatccccgg 450
agggcgtaac cgtactctac ctccacaaca accaaattaa taatgctgga 500
tttccctgcag aactgcacaa tgtacagtgc gtgcacacgg tctacctgtt 550
tggcaaccaa ctggacgaat tccccatgaa ccttcccaag aatgtcagag 600
ttctccatTTT gcaggaaaac aatattcaga ccatttcacg ggctgctttt 650
gcccgctct tgaagcttga agagctgcac ctggatgaca actccatatc 700
cacagtgggg gtggaaagacg gggccttccg ggaggctatt agcctcaaatt 750
tggttttttt gtctaaagat cacctgagca gtgtgcctgt tgggcttccct 800
gtggacttgc aagagctgag agtggatgaa aatcgaattt ctgtcatatc 850
cgacatggcc ttccagaatc tcacgagctt ggagcgtctt attgtggacg 900

P1618P2C3 sequence listing.txt

ggaacctcct gaccaacaag ggtatcgccg agggcacctt cagccatctc 950
accaagctca aggaatttc aattgtacgt aattcgctgt cccaccctcc 1000
tcccgatctc ccaggtacgc atctgatcag gctctattt caggacaacc 1050
agataaaacca cattcctttg acagccttct caaatctgcg taagctggaa 1100
cggtggata tatccaacaa ccaactgcgg atgctgactc aaggggtttt 1150
tgataatctc tccaacctga agcagctcac tgctcggaat aacccttgg 1200
tttgtgactg cagtattaaa tgggtcacag aatggctcaa atatatccct 1250
tcatctctca acgtgcgggg tttcatgtgc caaggtcctg aacaagtccg 1300
ggggatggcc gtcagggaat taaatatgaa tctttgtcc tgtcccacca 1350
cgaccccccgg cctgcctctc ttccacccag ccccaagtac agttctccg 1400
accactcgc ctccccccct ctctattcca aacccttagca gaagctacac 1450
gcctccaact cctaccacat cgaaacttcc cacgattcct gactggatg 1500
gcagagaaaag agtgacccca cctatttctg aacggatcca gctctctatc 1550
cattttgtga atgatacttc cattcaagtc agctggctct ctctcttcac 1600
cgtgatggca tacaaactca catgggtgaa aatgggccac agtttagtag 1650
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ccaaatgggg gcattaatta cacagactgc catatcccc acaacatgcg 2200
atactgcaac agcagcgtgc cagacctgga gcactccat acgtgacagc 2250
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cgtgtgtgca cataaaagaca cgcagattac atttgataaa tggcacacag 2350
atgcatttgcatcattgaat actctgtaat ttatacggtg tactatataa 2400
tgggatttaa aaaaagtgtt atctttcta tttcaagtttta attacaaaca 2450
gtttgttaac tctttgttt ttaaatctt 2479

P1618P2C3 sequence listing.txt

<210> 28
<211> 660
<212> PRT
<213> Homo Sapien

<400> 28
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20 25 30
Ser Lys Leu Leu Ala Cys Pro Ser Val Cys Arg Cys Asp Arg Asn
35 40 45
Phe Val Tyr Cys Asn Glu Arg Ser Leu Thr Ser Val Pro Leu Gly
50 55 60
Ile Pro Glu Gly Val Thr Val Leu Tyr Leu His Asn Asn Gln Ile
65 70 75
Asn Asn Ala Gly Phe Pro Ala Glu Leu His Asn Val Gln Ser Val
80 85 90
His Thr Val Tyr Leu Tyr Gly Asn Gln Leu Asp Glu Phe Pro Met
95 100 105
Asn Leu Pro Lys Asn Val Arg Val Leu His Leu Gln Glu Asn Asn
110 115 120
Ile Gln Thr Ile Ser Arg Ala Ala Leu Ala Gln Leu Leu Lys Leu
125 130 135
Glu Glu Leu His Leu Asp Asp Asn Ser Ile Ser Thr Val Gly Val
140 145 150
Glu Asp Gly Ala Phe Arg Glu Ala Ile Ser Leu Lys Leu Leu Phe
155 160 165
Leu Ser Lys Asn His Leu Ser Ser Val Pro Val Gly Leu Pro Val
170 175 180
Asp Leu Gln Glu Leu Arg Val Asp Glu Asn Arg Ile Ala Val Ile
185 190 195
Ser Asp Met Ala Phe Gln Asn Leu Thr Ser Leu Glu Arg Leu Ile
200 205 210
Val Asp Gly Asn Leu Leu Thr Asn Lys Gly Ile Ala Glu Gly Thr
215 220 225
Phe Ser His Leu Thr Lys Leu Lys Glu Phe Ser Ile Val Arg Asn
230 235 240
Ser Leu Ser His Pro Pro Pro Asp Leu Pro Gly Thr His Leu Ile
245 250 255
Arg Leu Tyr Leu Gln Asp Asn Gln Ile Asn His Ile Pro Leu Thr
260 265 270
Ala Phe Ser Asn Leu Arg Lys Leu Glu Arg Leu Asp Ile Ser Asn
275 280 285

P1618P2C3 sequence listing.txt

Asn	Gln	Leu	Arg	Met	Leu	Thr	Gln	Gly	Val	Phe	Asp	Asn	Leu	Ser
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Asn	Leu	Lys	Gln	Leu	Thr	Ala	Arg	Asn	Asn	Pro	Trp	Phe	Cys	Asp
305														315
Cys	Ser	Ile	Lys	Trp	Val	Thr	Glu	Trp	Leu	Lys	Tyr	Ile	Pro	Ser
320														330
Ser	Leu	Asn	Val	Arg	Gly	Phe	Met	Cys	Gln	Gly	Pro	Glu	Gln	Val
335														345
Arg	Gly	Met	Ala	Val	Arg	Glu	Leu	Asn	Met	Asn	Leu	Leu	Ser	Cys
350														360
Pro	Thr	Thr	Thr	Pro	Gly	Leu	Pro	Leu	Phe	Thr	Pro	Ala	Pro	Ser
365														375
Thr	Ala	Ser	Pro	Thr	Thr	Gln	Pro	Pro	Thr	Leu	Ser	Ile	Pro	Asn
380														390
Pro	Ser	Arg	Ser	Tyr	Thr	Pro	Pro	Thr	Pro	Thr	Thr	Ser	Lys	Leu
395														405
Pro	Thr	Ile	Pro	Asp	Trp	Asp	Gly	Arg	Glu	Arg	Val	Thr	Pro	Pro
410														420
Ile	Ser	Glu	Arg	Ile	Gln	Leu	Ser	Ile	His	Phe	Val	Asn	Asp	Thr
425														435
Ser	Ile	Gln	Val	Ser	Trp	Leu	Ser	Leu	Phe	Thr	Val	Met	Ala	Tyr
440														450
Lys	Leu	Thr	Trp	Val	Lys	Met	Gly	His	Ser	Leu	Val	Gly	Gly	Ile
455														465
Val	Gln	Glu	Arg	Ile	Val	Ser	Gly	Glu	Lys	Gln	His	Leu	Ser	Leu
470														480
Val	Asn	Leu	Glu	Pro	Arg	Ser	Thr	Tyr	Arg	Ile	Cys	Leu	Val	Pro
485														495
Leu	Asp	Ala	Phe	Asn	Tyr	Arg	Ala	Val	Glu	Asp	Thr	Ile	Cys	Ser
500														510
Glu	Ala	Thr	Thr	His	Ala	Ser	Tyr	Leu	Asn	Asn	Gly	Ser	Asn	Thr
515														525
Ala	Ser	Ser	His	Glu	Gln	Thr	Thr	Ser	His	Ser	Met	Gly	Ser	Pro
530														540
Phe	Leu	Leu	Ala	Gly	Leu	Ile	Gly	Gly	Ala	val	Ile	Phe	Val	Leu
545														555
Val	Val	Leu	Leu	Ser	Val	Phe	Cys	Trp	His	Met	His	Lys	Lys	Gly
560														570
Arg	Tyr	Thr	Ser	Gln	Lys	Trp	Lys	Tyr	Asn	Arg	Gly	Arg	Arg	Lys
575														585
Asp	Asp	Tyr	Cys	Glu	Ala	Gly	Thr	Lys	Lys	Asp	Asn	Ser	Ile	Leu
590														600

P1618P2C3 sequence listing.txt

Glu Met Thr Glu Thr Ser Phe Gln Ile Val Ser Leu Asn Asn Asp
605 610 615
Gln Leu Leu Lys Gly Asp Phe Arg Leu Gln Pro Ile Tyr Thr Pro
620 625 630
Asn Gly Gly Ile Asn Tyr Thr Asp Cys His Ile Pro Asn Asn Met
635 640 645
Arg Tyr Cys Asn Ser Ser Val Pro Asp Leu Glu His Cys His Thr
650 655 660
<210> 29
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 29
cgggtctacctt gtatggcaac c 21

<210> 30
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 30
gcaggacaac cagataaacc ac 22

<210> 31
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 31
acgcagattt gagaaggctg tc 22

<210> 32
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 32
ttcacgggct gctcttgccc agctcttgaa gcttgaagag ctgcac 46

<210> 33
<211> 3449
<212> DNA
<213> Homo Sapien

<400> 33

P1618P2C3 sequence listing.txt

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tcgcttcca ggcgccggcg gctgcagcct tgccctctt gctgccttg 200
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P1618P2C3 sequence listing.txt

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gaacgcagtg cagagccccaa aagctcagggc tattgtttaaa tcaataatgt 3050
tgtgaagtaa aacaatcgt actgagaaac ctgggttgcc acagaacaaa 3100
gacaagaagt atacactaac ttgtataaat ttatcttagga aaaaaatcct 3150

P1618P2C3 sequence listing.txt

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ctgtagaaca ctggccatag gaaatgctgt tttttgtac tggactttac 3350
cttgatatat gtatatggat gtatgcataa aatcatagga catabtact 3400
tgtgaaacaa gttggatTTT ttatacaata taaaattca ccacttcag 3449

<210> 34

<211> 915

<212> PRT

<213> Homo Sapien

<400> 34

Met	Glu	Lys	Met	Leu	Ala	Gly	Phe	Leu	Leu	Ile	Leu	Gly	Gln	
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Ile	Val	Leu	Leu	Pro	Ala	Glu	Ala	Arg	Glu	Arg	Ser	Arg	Gly	Arg
				20				25					30	
Ser	Ile	Ser	Arg	Gly	Arg	His	Ala	Arg	Thr	His	Pro	Gln	Thr	Ala
				35				40					45	
Leu	Leu	Glu	Ser	Ser	Cys	Glu	Asn	Lys	Arg	Ala	Asp	Leu	Val	Phe
				50				55					60	
Ile	Ile	Asp	Ser	Ser	Arg	Ser	Val	Asn	Thr	His	Asp	Tyr	Ala	Lys
				65				70					75	
Val	Lys	Glu	Phe	Ile	Val	Asp	Ile	Leu	Gln	Phe	Leu	Asp	Ile	Gly
				80				85					90	
Pro	Asp	Val	Thr	Arg	Val	Gly	Leu	Leu	Gln	Tyr	Gly	Ser	Thr	Val
				95				100					105	
Lys	Asn	Glu	Phe	Ser	Leu	Lys	Thr	Phe	Lys	Arg	Lys	Ser	Glu	Val
				110				115					120	
Glu	Arg	Ala	Val	Lys	Arg	Met	Arg	His	Leu	Ser	Thr	Gly	Thr	Met
				125				130					135	
Thr	Gly	Leu	Ala	Ile	Gln	Tyr	Ala	Leu	Asn	Ile	Ala	Phe	Ser	Glu
				140				145					150	
Ala	Glu	Gly	Ala	Arg	Pro	Leu	Arg	Glu	Asn	Val	Pro	Arg	Val	Ile
				155				160					165	
Met	Ile	Val	Thr	Asp	Gly	Arg	Pro	Gln	Asp	Ser	Val	Ala	Glu	Val
				170				175					180	
Ala	Ala	Lys	Ala	Arg	Asp	Thr	Gly	Ile	Leu	Ile	Phe	Ala	Ile	Gly
				185				190					195	
Val	Gly	Gln	Val	Asp	Phe	Asn	Thr	Leu	Lys	Ser	Ile	Gly	Ser	Glu
				200				205					210	
Pro	His	Glu	Asp	His	Val	Phe	Leu	Val	Ala	Asn	Phe	Ser	Gln	Ile
				215				220					225	

P1618P2C3 sequence listing.txt

Glu	Thr	Leu	Thr	Ser	Val	Phe	Gln	Lys	Lys	Leu	Cys	Thr	Ala	His
									235					240
230														
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					245			250						255
Ile	Pro	Gly	Ser	Tyr	Val	Cys	Arg	Cys	Lys	Gln	Gly	Tyr	Ile	Leu
					260			265						270
Asn	Ser	Asp	Gln	Thr	Thr	Cys	Arg	Ile	Gln	Asp	Leu	Cys	Ala	Met
					275			280						285
Glu	Asp	His	Asn	Cys	Glu	Gln	Leu	Cys	Val	Asn	Val	Pro	Gly	Ser
				290				295						300
Phe	Val	Cys	Gln	Cys	Tyr	Ser	Gly	Tyr	Ala	Leu	Ala	Glu	Asp	Gly
				305				310						315
Lys	Arg	Cys	Val	Ala	Val	Asp	Tyr	Cys	Ala	Ser	Glu	Asn	His	Gly
				320				325						330
Cys	Glu	His	Glu	Cys	Val	Asn	Ala	Asp	Gly	Ser	Tyr	Leu	Cys	Gln
				335				340						345
Cys	His	Glu	Gly	Phe	Ala	Leu	Asn	Pro	Asp	Glu	Lys	Thr	Cys	Thr
				350				355						360
Arg	Ile	Asn	Tyr	Cys	Ala	Leu	Asn	Lys	Pro	Gly	Cys	Glu	His	Glu
				365				370						375
Cys	Val	Asn	Met	Glu	Glu	Ser	Tyr	Tyr	Cys	Arg	Cys	His	Arg	Gly
				380				385						390
Tyr	Thr	Leu	Asp	Pro	Asn	Gly	Lys	Thr	Cys	Ser	Arg	Val	Asp	His
				395				400						405
Cys	Ala	Gln	Gln	Asp	His	Gly	Cys	Glu	Gln	Leu	Cys	Leu	Asn	Thr
				410				415						420
Glu	Asp	Ser	Phe	Val	Cys	Gln	Cys	Ser	Glu	Gly	Phe	Leu	Ile	Asn
				425				430						435
Glu	Asp	Leu	Lys	Thr	Cys	Ser	Arg	Val	Asp	Tyr	Cys	Leu	Leu	Ser
				440				445						450
Asp	His	Gly	Cys	Glu	Tyr	Ser	Cys	Val	Asn	Met	Asp	Arg	Ser	Phe
				455				460						465
Ala	Cys	Gln	Cys	Pro	Glu	Gly	His	Val	Leu	Arg	Ser	Asp	Gly	Lys
				470				475						480
Thr	Cys	Ala	Lys	Leu	Asp	Ser	Cys	Ala	Leu	Gly	Asp	His	Gly	Cys
				485				490						495
Glu	His	Ser	Cys	Val	Ser	Ser	Glu	Asp	Ser	Phe	Val	Cys	Gln	Cys
				500				505						510
Phe	Glu	Gly	Tyr	Ile	Leu	Arg	Glu	Asp	Gly	Lys	Thr	Cys	Arg	Arg
				515				520						525
Lys	Asp	Val	Cys	Gln	Ala	Ile	Asp	His	Gly	Cys	Glu	His	Ile	Cys
				530				535						540

P1618P2C3 sequence listing.txt

Val Asn Ser Asp Asp Ser Tyr Thr Cys Glu Cys Leu Glu Gly Phe
545 550 555

Arg Leu Ala Glu Asp Gly Lys Arg Cys Arg Arg Lys Asp Val Cys
560 565 570

Lys Ser Thr His His Gly Cys Glu His Ile Cys Val Asn Asn Gly
575 580 585

Asn Ser Tyr Ile Cys Lys Cys Ser Glu Gly Phe Val Leu Ala Glu
590 595 600

Asp Gly Arg Arg Cys Lys Lys Cys Thr Glu Gly Pro Ile Asp Leu
605 610 615

Val Phe Val Ile Asp Gly Ser Lys Ser Leu Gly Glu Glu Asn Phe
620 625 630

Glu Val Val Lys Gln Phe Val Thr Gly Ile Ile Asp Ser Leu Thr
635 640 645

Ile Ser Pro Lys Ala Ala Arg Val Gly Leu Leu Gln Tyr Ser Thr
650 655 660

Gln Val His Thr Glu Phe Thr Leu Arg Asn Phe Asn Ser Ala Lys
665 670 675

Asp Met Lys Lys Ala Val Ala His Met Lys Tyr Met Gly Lys Gly
680 685 690

Ser Met Thr Gly Leu Ala Leu Lys His Met Phe Glu Arg Ser Phe
695 700 705

Thr Gln Gly Glu Gly Ala Arg Pro Leu Ser Thr Arg Val Pro Arg
710 715 720

Ala Ala Ile Val Phe Thr Asp Gly Arg Ala Gln Asp Asp Val Ser
725 730 735

Glu Trp Ala Ser Lys Ala Lys Ala Asn Gly Ile Thr Met Tyr Ala
740 745 750

Val Gly Val Gly Lys Ala Ile Glu Glu Glu Leu Gln Glu Ile Ala
755 760 765

Ser Glu Pro Thr Asn Lys His Leu Phe Tyr Ala Glu Asp Phe Ser
770 775 780

Thr Met Asp Glu Ile Ser Glu Lys Leu Lys Lys Gly Ile Cys Glu
785 790 795

Ala Leu Glu Asp Ser Asp Gly Arg Gln Asp Ser Pro Ala Gly Glu
800 805 810

Leu Pro Lys Thr Val Gln Gln Pro Thr Glu Ser Glu Pro Val Thr
815 820 825

Ile Asn Ile Gln Asp Leu Leu Ser Cys Ser Asn Phe Ala Val Gln
830 835 840

His Arg Tyr Leu Phe Glu Glu Asp Asn Leu Leu Arg Ser Thr Gln
845 850 855

P1618P2C3 sequence listing.txt

Lys Leu Ser His Ser Thr Lys Pro Ser Gly Ser Pro Leu Glu Glu
860 865 870
Lys His Asp Gln Cys Lys Cys Glu Asn Leu Ile Met Phe Gln Asn
875 880 885
Leu Ala Asn Glu Glu Val Arg Lys Leu Thr Gln Arg Leu Glu Glu
890 895 900
Met Thr Gln Arg Met Glu Ala Leu Glu Asn Arg Leu Arg Tyr Arg
905 910 915

<210> 35

<211> 23

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 35

gtgaccctgg ttgtgaatac tcc 23

<210> 36

<211> 22

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 36

acagccatgg tctatacgctt gg 22

<210> 37

<211> 45

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 37

gcctgtcagt gtcctgaggg acacgtgctc cgcagcgatg ggaag 45

<210> 38

<211> 1813

<212> DNA

<213> Homo Sapien

<400> 38

ggagccccc tgggtgtcag cggctcggt cccgcgcacg ctccggccgt 50

cgcgcagcct cggcacctgc aggtccgtgc gtccccggc tggcgcccc 100

gactccgtcc cggccaggga gggccatgtat ttccctcccg gggccccctgg 150

tgaccaactt gctgcgttt ttgttcctgg ggctgagtgcc cctcgccccc 200

ccctcgccggg cccagctgca actgcacttg cccgccaacc ggttgcaggc 250

ggtgtggaggga ggggaagtgg tgcttccagc gtggtaacacc ttgcacgggg 300

P1618P2C3 sequence listing.txt
aggtgtttc atcccagcca tgggaggtgc cctttgtat gtggttttc 350
aaacagaaaag aaaaggagga tcaggtgttgc tcctacatca atggggtcac 400
aacaagcaaa cctggagtat ccttggtcta ctccatgccc tcccggaaacc 450
tgccctgcg gctggagggt ctccaggaga aagactctgg cccctacagc 500
tgctccgtga atgtcaaga caaacaaggc aaatcttaggg gccacagcat 550
caaaacctta gaactcaatg tactggttcc tccagctcct ccatcctgccc 600
gtctccagggttgtccccat gtgggggcaa acgtgaccct gagctgccag 650
tctccaagga gtaagccgc tgtccaatac cagtgggatc ggcagcttcc 700
atcccttcag acttttttgc caccaggatt agatgtcatc cgtgggtctt 750
taaggcctcac caacctttcg tcttccatgg ctggagtcta tgtctgcaag 800
gcccacaaatg aggtgggcac tgcccaatgt aatgtgacgc tggaaagttag 850
cacagggcct ggagctgcag tggttgctgg agctgttgg ggtaccctgg 900
ttggactggg gttgctggct gggctggcc tcttgtacca ccggccggggc 950
aaggccctgg aggagccagc caatgatattc aaggaggatg ccattgctcc 1000
ccggaccctg ccctggccca agagctcaga cacaatctcc aagaatggga 1050
ccctttcctc tgtcacctcc gcacgagccc tccggccacc ccatggccct 1100
cccaggcctg gtgcattgac ccccacgccc agtctctcca gccaggccct 1150
gccctcacca agactgcccac caacatggggatgg ggcccccaccct caaccaatat 1200
cccccatccc tggtggggtt tcttcctctg gcttggcccg catgggtgct 1250
gtgcctgtga tggtgcctgc ccagagtcaa gctggctctc tggatgtatg 1300
acccaccac tcattggcta aaggatttgg ggtctctcc tccatataagg 1350
gtcacctcta gcacagaggc ctgagtcatttgg ggaaagagtc acactcctga 1400
cccttagtac tctggcccca cctctcttta ctgtggaaaa accatctcag 1450
taagacctaa gtgtccagga gacagaagga gaagaggaag tggatctgga 1500
attgggagga gcctccaccc acccctgact cctccttatg aagccagctg 1550
ctgaaattag ctactcacca agagtgggg gcagagactt ccagtcaactg 1600
agtctcccaag gcccccttga tctgtaccc accccttatct aacaccaccc 1650
ttggctccca ctccagctcc ctgtattgtat ataacctgtc aggctggctt 1700
ggttaggttt tactggggca gaggataggg aatcttttat taaaactaac 1750
atgaaatatg ttttggggatggg aatcttttat taaaataaag atacataatg 1800
tttggatgaa aaa 1813

P1618P2C3 sequence listing.txt

<211> 390
 <212> PRT
 <213> Homo Sapien

<400> 39

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Leu	Phe	Leu	Gly	Leu	Ser	Ala	Leu	Ala	Pro	Pro	Ser	Arg	Ala	Gln
	20						25						30	
Leu	Gln	Leu	His	Leu	Pro	Ala	Asn	Arg	Leu	Gln	Ala	Val	Glu	Gly
	35						40						45	
Gly	Glu	Val	Val	Leu	Pro	Ala	Trp	Tyr	Thr	Leu	His	Gly	Glu	Val
	50						55						60	
Ser	Ser	Ser	Gln	Pro	Trp	Glu	Val	Pro	Phe	Val	Met	Trp	Phe	Phe
	65							70					75	
Lys	Gln	Lys	Glu	Lys	Glu	Asp	Gln	Val	Leu	Ser	Tyr	Ile	Asn	Gly
	80							85					90	
Val	Thr	Thr	Ser	Lys	Pro	Gly	Val	Ser	Leu	Val	Tyr	Ser	Met	Pro
	95							100					105	
Ser	Arg	Asn	Leu	Ser	Leu	Arg	Leu	Glu	Gly	Leu	Gln	Glu	Lys	Asp
	110						115						120	
Ser	Gly	Pro	Tyr	Ser	Cys	Ser	Val	Asn	Val	Gln	Asp	Lys	Gln	Gly
	125						130						135	
Lys	Ser	Arg	Gly	His	Ser	Ile	Lys	Thr	Leu	Glu	Leu	Asn	Val	Leu
	140						145						150	
Val	Pro	Pro	Ala	Pro	Pro	Ser	Cys	Arg	Leu	Gln	Gly	Val	Pro	His
	155						160						165	
Val	Gly	Ala	Asn	Val	Thr	Leu	Ser	Cys	Gln	Ser	Pro	Arg	Ser	Lys
	170						175						180	
Pro	Ala	Val	Gln	Tyr	Gln	Trp	Asp	Arg	Gln	Leu	Pro	Ser	Phe	Gln
	185						190						195	
Thr	Phe	Phe	Ala	Pro	Ala	Leu	Asp	Val	Ile	Arg	Gly	Ser	Leu	Ser
	200						205						210	
Leu	Thr	Asn	Leu	Ser	Ser	Ser	Met	Ala	Gly	Val	Tyr	Val	Cys	Lys
	215						220						225	
Ala	His	Asn	Glu	Val	Gly	Thr	Ala	Gln	Cys	Asn	Val	Thr	Leu	Glu
	230						235						240	
Val	Ser	Thr	Gly	Pro	Gly	Ala	Ala	Val	Val	Ala	Gly	Ala	Val	Val
	245						250						255	
Gly	Thr	Leu	Val	Gly	Leu	Gly	Leu	Leu	Ala	Gly	Leu	Val	Leu	Leu
	260						265						270	
Tyr	His	Arg	Arg	Gly	Lys	Ala	Leu	Glu	Glu	Pro	Ala	Asn	Asp	Ile
	275						280						285	
Lys	Glu	Asp	Ala	Ile	Ala	Pro	Arg	Thr	Leu	Pro	Trp	Pro	Lys	Ser

P1618P2C3 sequence listing.txt
290 295 300

Ser Asp Thr Ile Ser Lys Asn Gly Thr Leu Ser Ser Val Thr Ser
305 310 315
Ala Arg Ala Leu Arg Pro Pro His Gly Pro Pro Arg Pro Gly Ala
320 325 330
Leu Thr Pro Thr Pro Ser Leu Ser Ser Gln Ala Leu Pro Ser Pro
335 340 345
Arg Leu Pro Thr Thr Asp Gly Ala His Pro Gln Pro Ile Ser Pro
350 355 360
Ile Pro Gly Gly Val Ser Ser Ser Gly Leu Ser Arg Met Gly Ala
365 370 375
Val Pro Val Met Val Pro Ala Gln Ser Gln Ala Gly Ser Leu Val
380 385 390

<210> 40
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 40
agggtctcca ggagaaagac tc 22

<210> 41
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 41
attgtgggcc ttgcagacat agac 24

<210> 42
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 42
ggccacagca tcaaaacctt agaactcaat gtactggttc ctccagctcc 50

<210> 43
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 43
gtgtgacaca gcgtgggc 18

P1618P2C3 sequence listing.txt

<210> 44
<211> 18
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 44
gaccggcagg cttctgcg 18

<210> 45
<211> 25
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 45
cagcagcttc agccaccagg agtgg 25

<210> 46
<211> 24
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 46
ctgagccgtg ggctgcagtc tcgc 24

<210> 47
<211> 45
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 47
ccgactacga ctggttcttc atcatgcagg atgacacata tgtgc 45

<210> 48
<211> 2822
<212> DNA
<213> Homo Sapien

<400> 48
cgccaccact gcggccaccg ccaatgaaac gcctcccgct cctagtggtt 50
tttccactt tggtaatttgc ttccataact caaaatttgc ccaagacacc 100
ttgtctccca aatgaaaaat gtgaaatacg caatggaaatttgc gaagcctgct 150
attgcaacat gggattttca gggatggtg tcacaatttgc tggatgtat 200
aatgaaatgtg gaaatttAAC tcagtcctgt ggcggaaatg ctaattgcac 250
taacacagaa ggaagttatttgc tggatgtg tggatgttgc ttcagatcca 300

P1618P2C3 sequence listing.txt
gcagtaacca agacaggaaa atcactaatg atggAACCGT ctgtatagaa 350
aatgtgaatg caaactgccaa tttagataat gtctgtatag ctgcaaataat 400
taataaaaact ttaacaaaaa tcagatccat aaaagaacct gtggCTTGC 450
tacaagaagt ctatagaaat tctgtgacag atcttcacc aacagatata 500
attacatata tagaaatatt agctgaatca tcttcattac taggttacaa 550
gaacaacact atctcagcca aggacaccct ttcttaactca actcttactg 600
aatttgtaaa aaccgtgaat aattttgttc aaagggatac atttgttagtt 650
tggacaagt tatctgtgaa tcataggaga acacatcta caaaactcat 700
gcacactgtt gaacaagcta cttaaggat atcccagagc ttccaaaaga 750
ccacagagtt tgatacaaata tcaacggata tagctctcaa agttttcttt 800
tttgattcat ataacatgaa acatattcat cctcatatga atatggatgg 850
agactacata aatatatttc caaagagaaa agctgcataat gattcaaata 900
gcaatgtgc agttgcattt ttatattata agagtattgg tccttgctt 950
tcatcatctg acaacttctt attgaaacctt caaaattatg ataattctga 1000
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cgaaaggtca cagataggtta taggagtcta tgtgcatttt ggaattactc 1150
acctgataacc atgaatggca gctggcttc agagggctgt gagctgacat 1200
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gcaattttga tgtcctctgg tccttccatt ggtattaaag attataataat 1300
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acaacaatttca acaaaaatct ttgctgttagc ctatttcttg ctgaacttgc 1450
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accagcatgc ctaatcatttctt tggttaatctt cttggctttt ggagtcatca 1800
tatacaaagt tttcgtcac actgcagggt tgaaaccaga agtttagttgc 1850
tttggagaaca taaggtcttgc tgcaagagga gcccctcgctc ttctgttcct 1900

P1618P2C3 sequence listing.txt

tctcggcacc acctggatct ttggggttct ccatgttgta cacgcacag 1950
tggttacagc ttacaccttc acagtcagca atgccttcca ggggatgttc 2000
attttttat tcctgtgtgt tttatctaga aagattcaag aagaatatta 2050
cagattgttc aaaaatgtcc cctgttgttt tggatgttta aggtaaacat 2100
agagaatggt ggataattac aactgcacaa aaataaaaat tccaagctgt 2150
ggatgaccaa tgtataaaaa tgactcatca aattatccaa ttattaacta 2200
ctagacaaaa agtattttaa atcagtttt ctgttatgc tataggaact 2250
gtagataata aggtaaaatt atgtatcata tagatatact atgttttct 2300
atgtgaaata gttctgtcaa aaatagtatt gcagatattt ggaaagtaat 2350
tggttctca ggagtgatat cactgcaccc aaggaaagat tttcttcta 2400
acacgagaag tatatgaatg tcctgaagga aaccactggc ttgatattc 2450
tgtgactcgt gttgccttg aaactagtcc cctaccacct cggtaatgag 2500
ctccattaca gaaagtggaa cataagagaa tgaaggggca gaatatcaa 2550
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aaaaagggtt acctccacaa attgaaaaaaaaaaaaaaaaaaaaaaa 2800
aaaaaaaaaaaaaa aa 2822

<210> 49
<211> 690
<212> PRT
<213> Homo Sapien

<400> 49
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Cys Ser Tyr Thr Gln Asn Cys Thr Lys Thr Pro Cys Leu Pro Asn
20 25 30
Ala Lys Cys Glu Ile Arg Asn Gly Ile Glu Ala Cys Tyr Cys Asn
35 40 45
Met Gly Phe Ser Gly Asn Gly Val Thr Ile Cys Glu Asp Asp Asn
50 55 60
Glu Cys Gly Asn Leu Thr Gln Ser Cys Gly Glu Asn Ala Asn Cys
65 70 75
Thr Asn Thr Glu Gly Ser Tyr Tyr Cys Met Cys Val Pro Gly Phe
80 85 90

P1618P2C3 sequence listing.txt

Arg	Ser	Ser	Ser	Asn	Gln	Asp	Arg	Phe	Ile	Thr	Asn	Asp	Gly	Thr
95									100					105
val	cys	Ile	Glu	Asn	Val	Asn	Ala	Asn	Cys	His	Leu	Asp	Asn	Val
	110								115					120
Cys	Ile	Ala	Ala	Asn	Ile	Asn	Lys	Thr	Leu	Thr	Lys	Ile	Arg	Ser
	125								130					135
Ile	Lys	Glu	Pro	Val	Ala	Leu	Leu	Gln	Glu	Val	Tyr	Arg	Asn	Ser
	140								145					150
val	Thr	Asp	Leu	Ser	Pro	Thr	Asp	Ile	Ile	Thr	Tyr	Ile	Glu	Ile
	155								160					165
Leu	Ala	Glu	Ser	Ser	Ser	Leu	Leu	Gly	Tyr	Lys	Asn	Asn	Thr	Ile
	170								175					180
Ser	Ala	Lys	Asp	Thr	Leu	Ser	Asn	Ser	Thr	Leu	Thr	Glu	Phe	Val
	185								190					195
Lys	Thr	Val	Asn	Asn	Phe	Val	Gln	Arg	Asp	Thr	Phe	Val	Val	Trp
	200								205					210
Asp	Lys	Leu	Ser	Val	Asn	His	Arg	Arg	Thr	His	Leu	Thr	Lys	Leu
	215								220					225
Met	His	Thr	Val	Glu	Gln	Ala	Thr	Leu	Arg	Ile	Ser	Gln	Ser	Phe
	230								235					240
Gln	Lys	Thr	Thr	Glu	Phe	Asp	Thr	Asn	Ser	Thr	Asp	Ile	Ala	Leu
	245								250					255
Lys	Val	Phe	Phe	Phe	Asp	Ser	Tyr	Asn	Met	Lys	His	Ile	His	Pro
	260								265					270
His	Met	Asn	Met	Asp	Gly	Asp	Tyr	Ile	Asn	Ile	Phe	Pro	Lys	Arg
	275								280					285
Lys	Ala	Ala	Tyr	Asp	Ser	Asn	Gly	Asn	Val	Ala	Val	Ala	Phe	Leu
	290								295					300
Tyr	Tyr	Lys	Ser	Ile	Gly	Pro	Leu	Leu	Ser	Ser	Ser	Asp	Asn	Phe
	305								310					315
Leu	Leu	Lys	Pro	Gln	Asn	Tyr	Asp	Asn	Ser	Glu	Glu	Glu	Glu	Arg
	320								325					330
Val	Ile	Ser	Ser	Val	Ile	Ser	Val	Ser	Met	Ser	Ser	Asn	Pro	Pro
	335								340					345
Thr	Leu	Tyr	Glu	Leu	Glu	Lys	Ile	Thr	Phe	Thr	Leu	Ser	His	Arg
	350								355					360
Lys	Val	Thr	Asp	Arg	Tyr	Arg	Ser	Leu	Cys	Ala	Phe	Trp	Asn	Tyr
	365								370					375
Ser	Pro	Asp	Thr	Met	Asn	Gly	Ser	Trp	Ser	Ser	Glu	Gly	Cys	Glu
	380								385					390
Leu	Thr	Tyr	Ser	Asn	Glu	Thr	His	Thr	Ser	Cys	Arg	Cys	Asn	His
	395								400					405

P1618P2C3 sequence listing.txt

Leu Thr His Phe Ala Ile Leu Met Ser Ser Gly Pro Ser Ile Gly
410 415 420

Ile Lys Asp Tyr Asn Ile Leu Thr Arg Ile Thr Gln Leu Gly Ile
425 430 435

Ile Ile Ser Leu Ile Cys Leu Ala Ile Cys Ile Phe Thr Phe Trp
440 445 450

Phe Phe Ser Glu Ile Gln Ser Thr Arg Thr Thr Ile His Lys Asn
455 460 465

Leu Cys Cys Ser Leu Phe Leu Ala Glu Leu Val Phe Leu Val Gly
470 475 480

Ile Asn Thr Asn Thr Asn Lys Leu Phe Cys Ser Ile Ile Ala Gly
485 490 495

Leu Leu His Tyr Phe Phe Leu Ala Ala Phe Ala Trp Met Cys Ile
500 505 510

Glu Gly Ile His Leu Tyr Leu Ile Val Val Gly Val Ile Tyr Asn
515 520 525

Lys Gly Phe Leu His Lys Asn Phe Tyr Ile Phe Gly Tyr Leu Ser
530 535 540

Pro Ala Val Val Val Gly Phe Ser Ala Ala Leu Gly Tyr Arg Tyr
545 550 555

Tyr Gly Thr Thr Lys Val Cys Trp Leu Ser Thr Glu Asn Asn Phe
560 565 570

Ile Trp Ser Phe Ile Gly Pro Ala Cys Leu Ile Ile Leu Val Asn
575 580 585

Leu Leu Ala Phe Gly Val Ile Ile Tyr Lys Val Phe Arg His Thr
590 595 600

Ala Gly Leu Lys Pro Glu Val Ser Cys Phe Glu Asn Ile Arg Ser
605 610 615

Cys Ala Arg Gly Ala Leu Ala Leu Leu Phe Leu Leu Gly Thr Thr
620 625 630

Trp Ile Phe Gly Val Leu His Val Val His Ala Ser Val Val Thr
635 640 645

Ala Tyr Leu Phe Thr Val Ser Asn Ala Phe Gln Gly Met Phe Ile
650 655 660

Phe Leu Phe Leu Cys Val Leu Ser Arg Lys Ile Gln Glu Glu Tyr
665 670 675

Tyr Arg Leu Phe Lys Asn Val Pro Cys Cys Phe Gly Cys Leu Arg
680 685 690

<210> 50

<211> 589

<212> DNA

<213> Homo Sapien

<220>

P1618P2C3 sequence listing.txt

<221> unsure
<222> 61
<223> unknown base

<400> 50
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attccaaag ngaaaagccg gcatatggat tcaaattggca atgttgcagt 100
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aacttcttat tgaaacctca aaattatgtat aattctgaag aggaggaaag 200
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tataatgaact tgaaaaata acatttacat taagtcatcg aaaggtcaca 300
gataggtata ggagtctatg tggcattttg gaataactcac ctgataaccat 350
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tcctctggtc cttccattgg tattaaagat tataatattc ttacaaggat 500
cactcaacta ggaataatta tttcactgat ttgtcttgcc atatgcattt 550
ttaccttctg gttcttcagt gaaattcaaa gcaccagga 589

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<220>
<223> Synthetic Oligonucleotide Probe

<400> 51
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<210> 52
<211> 18
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<220>
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<400> 52
ggagtagaaa gcgcatgg 18

<210> 53
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<400> 53
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<210> 54

P1618P2C3 sequence listing.txt

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<223> Synthetic Oligonucleotide Probe

<400> 54
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<210> 55
<211> 18
<212> DNA
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<220>
<223> Synthetic Oligonucleotide Probe

<400> 55
ggatctcctg agctcagg 18

<210> 56
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 56
cctagttgag tgatccttgt aag 23

<210> 57
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<212> DNA
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<212> DNA
<213> Homo Sapien

<400> 58
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tgggcggggt caccgggtt gggacaagaa gccgcccct gcctgcccgg 150
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tgtgcggggg gcggaggctt gatgcaatcc cgataagaaa tgctcggtt 250
tcttgggcac ctacccgtgg ggcccgtaag ggcgtactat ataaggctgc 300
cgccccggag ccgcgcgcgc gtcagagcag gagcgctgcg tccaggatct 350

P1618P2C3 sequence listing.txt

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gtcgccgccc agcctccgc acccccattcg ccggagctgc gccgagagcc 450
ccagggaggt gccatgcgga gcgggtgtgt ggtggtccac gtatggatcc 500
tggccggcct ctggctggcc gtggccggc gccccctcgc cttctcgac 550
gcggggcccc acgtgcacta cggctgggc gaccccatcc gcctgcggca 600
cctgtacacc tccggccccc acgggctctc cagctgcttc ctgcgcattcc 650
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cagcgtgcgg tacctctgca tggcgccga cggcaagatg cagggcgtgc 800
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ccatctccca gcccaccagc cctctgcccc cctcacatgc ctccccatgg 1850
attggggcct cccaggcccc ccaccttatg tcaacctgca cttctgttc 1900
aaaaatcagg aaaagaaaag atttgaagac cccaaagtctt gtcaataact 1950

P1618P2C3 sequence listing.txt

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ggttttccaa catgatattt atgagtaatt tattttgata tgtacatctc 2050
ttatTTTCTT acattattta tgcccccaaa ttatatttt gtatgttaagt 2100
gaggTTTgtt ttgtatatta aaatggagtt tgTTTgt 2137

<210> 59
<211> 216
<212> PRT
<213> Homo Sapien

<400> 59
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Leu Trp Leu Ala Val Ala Gly Arg Pro Leu Ala Phe Ser Asp Ala
20 25 30
Gly Pro His Val His Tyr Gly Trp Gly Asp Pro Ile Arg Leu Arg
35 40 45
His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser Cys Phe Leu
50 55 60
Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly Gln Ser
65 70 75
Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr Val
80 85 90
Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
95 100 105
Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
110 115 120
Ala Phe Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg
125 130 135
Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln
140 145 150
Arg Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe
155 160 165
Leu Pro Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg
170 175 180
Gly His Leu Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp
185 190 195
Ser Met Asp Pro Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg
200 205 210
Ser Pro Ser Phe Glu Lys
215

<210> 60
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<212> DNA

P1618P2C3 sequence listing.txt

<213> Artificial Sequence

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<223> Synthetic Oligonucleotide Probe

<400> 60

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<210> 61

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 61

gcctcccggt ctccctgagc agtgccaaac agcggcagtg ta 42

<210> 62

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 62

ccagtcccggt gacaaggcca aa 22

<210> 63

<211> 1295

<212> DNA

<213> Homo Sapien

<400> 63

cccagaagtt caagggccccc cggcctcctg cgctcctgcc gccgggaccc 50

tcgacacctt cagagcagcc ggctgccgcc ccgggaagat ggcgaggagg 100

agccgccacc gcctccctt gctgctgctg cgctacctgg tggtcgccct 150

gggctatcat aaggcctatg ggtttctgc cccaaaagac caacaagtag 200

tcacagcagt agatcacca gaggctattt tagcctgcaa aaccccaaag 250

aagactgttt cctccagatt agagtggaaag aaactgggtc ggagtgtctc 300

ctttgtctac tatcaacaga ctcttcaagg tgatttaaa aatcgagctg 350

agatgataga tttcaatatac cgatcaaaa atgtgacaag aagtgtatgcg 400

ggaaatatc gttgtgaagt tagtgcggca tctgagcaag gccaaaacct 450

ggaagaggat acagtcaactc tggaaagtatt agtggctcca gcagttccat 500

catgtgaagt acccttttct gctctgagtg gaactgtggt agagctacga 550

tgtcaagaca aagaaggaa tccagctcct gaatacacat ggtttaagga 600

tggcatccgt ttgctagaaa atcccagact tggctcccaa agcaccaaca 650

gctcatacac acatgaataca aaaactggaa ctctgcaatt taatactgtt 700

P1618P2C3 sequence listing.txt

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ggccttggtg tatgctatgc tcagaggaaa ggctactttt caaaagaaac 900
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atgtcagtg gctcacgcct gtaatcccag cacttggaa ggccgcggcg 1000
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ctgcagttcc agctgcttgg gagacaggag aatcaactga acccgggagg 1150
cggaggttgc agtgagctga gatcacgcca ctgcagttca gcctggtaa 1200
cagagcaaga ttccatctca aaaaataaaaa taaataaata aataaataact 1250
ggtttttacc tgtagaattc ttacaataaa tatagcttga tattc 1295

<210> 64
<211> 312
<212> PRT
<213> Homo Sapien

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Tyr Leu Val Val Ala Leu Gly Tyr His Lys Ala Tyr Gly Phe Ser
20 25 30
Ala Pro Lys Asp Gln Gln Val Val Thr Ala Val Glu Tyr Gln Glu
35 40 45
Ala Ile Leu Ala Cys Lys Thr Pro Lys Lys Thr Val Ser Ser Arg
50 55 60
Leu Glu Trp Lys Lys Leu Gly Arg Ser Val Ser Phe Val Tyr Tyr
65 70 75
Gln Gln Thr Leu Gln Gly Asp Phe Lys Asn Arg Ala Glu Met Ile
80 85 90
Asp Phe Asn Ile Arg Ile Lys Asn Val Thr Arg Ser Asp Ala Gly
95 100 105
Lys Tyr Arg Cys Glu Val Ser Ala Pro Ser Glu Gln Gly Gln Asn
110 115 120
Leu Glu Glu Asp Thr Val Thr Leu Glu Val Leu Val Ala Pro Ala
125 130 135
Val Pro Ser Cys Glu Val Pro Ser Ser Ala Leu Ser Gly Thr Val
140 145 150
Val Glu Leu Arg Cys Gln Asp Lys Glu Gly Asn Pro Ala Pro Glu
155 160 165

P1618P2C3 sequence listing.txt

Tyr Thr Trp Phe Lys Asp Gly Ile Arg Leu Leu Glu Asn Pro Arg
170 175 180
Leu Gly Ser Gln Ser Thr Asn Ser Ser Tyr Thr Met Asn Thr Lys
185 190 195
Thr Gly Thr Leu Gln Phe Asn Thr Val Ser Lys Leu Asp Thr Gly
200 205 210
Glu Tyr Ser Cys Glu Ala Arg Asn Ser Val Gly Tyr Arg Arg Cys
215 220 225
Pro Gly Lys Arg Met Gln Val Asp Asp Leu Asn Ile Ser Gly Ile
230 235 240
Ile Ala Ala Val Val Val Val Ala Leu Val Ile Ser Val Cys Gly
245 250 255
Leu Gly Val Cys Tyr Ala Gln Arg Lys Gly Tyr Phe Ser Lys Glu
260 265 270
Thr Ser Phe Gln Lys Ser Asn Ser Ser Ser Lys Ala Thr Thr Met
275 280 285
Ser Glu Asn Val Gln Trp Leu Thr Pro Val Ile Pro Ala Leu Trp
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Lys Ala Ala Ala Gly Gly Ser Arg Gly Gln Glu Phe
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<210> 65

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 65

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<210> 66

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 66

acctgcgata tccaaacagaa ttg 23

<210> 67

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 67

ggaagaggat acagtcaactc tggaagtatt agtggctcca gcagttcc 48

P1618P2C3 sequence listing.txt

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<212> DNA
<213> Homo Sapien

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agaagcatgg gatttaaata ttttacttct aaataaatga attactcaat 200
ctccttatgac catctataca tactccacct tcaaaaagta catcaatatt 250
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tgtggttcta tggcattcat catttgacaa atgcaagcat ctcccttatac 400
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ccattacatt tctgaagaag aaagctaaga tgaaggacat gccactccga 500
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taaaaaagtg gattgtccac ggttatgtac gtgtgaaatc aggccttgg 600
ttacacccag atccatttat atggaagcat ctacagtgg ttgtaatgat 650
ttaggtcttt taactttccc agccagattt ccagctaaca cacagattct 700
tctcctacag actaacaata ttgcaaaaat tgaatactcc acagacttcc 750
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cacagaaata ccagataacg ccttgggtgg actggaaaac tttagaaagca 1200
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aaagttgtaa atctcaaatt ttggatcta aataaaaatc ctattaatag 1300
aatacgaagg ggtgattta gcaatatgct acactaaaa gagttggggaa 1350
taaataatat gcctgagctg attccatcg atagtcttgc tgtggataac 1400

P1618P2C3 sequence listing.txt

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tgagctttat cctcctctga taaatctctg ggaAGCAGGA aaagaaaaaa 2550
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tcctaaaaAC caccaaggaa acctactCCA aaaatgaac 2639

<210> 69

<211> 708

<212> PRT

<213> Homo Sapien

<400> 69

Met Lys Asp Met Pro Leu Arg Ile His Val Leu Leu Gly Leu Ala
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Ile Thr Thr Leu Val Gln Ala Val Asp Lys Lys Val Asp Cys Pro
20 25 30

Arg Leu Cys Thr Cys Glu Ile Arg Pro Trp Phe Thr Pro Arg Ser
Page 42

P1618P2C3 sequence listing.txt

35

40

45

Ile Tyr Met Glu Ala Ser Thr Val Asp Cys Asn Asp Leu Gly Leu
 50 55 60

Leu Thr Phe Pro Ala Arg Leu Pro Ala Asn Thr Gln Ile Leu Leu
 65 70 75

Leu Gln Thr Asn Asn Ile Ala Lys Ile Glu Tyr Ser Thr Asp Phe
 80 85 90

Pro Val Asn Leu Thr Gly Leu Asp Leu Ser Gln Asn Asn Leu Ser
 95 100 105

Ser Val Thr Asn Ile Asn Val Lys Lys Met Pro Gln Leu Leu Ser
 110 115 120

Val Tyr Leu Glu Glu Asn Lys Leu Thr Glu Leu Pro Glu Lys Cys
 125 130 135

Leu Ser Glu Leu Ser Asn Leu Gln Glu Leu Tyr Ile Asn His Asn
 140 145 150

Leu Leu Ser Thr Ile Ser Pro Gly Ala Phe Ile Gly Leu His Asn
 155 160 165

Leu Leu Arg Leu His Leu Asn Ser Asn Arg Leu Gln Met Ile Asn
 170 175 180

Ser Lys Trp Phe Asp Ala Leu Pro Asn Leu Glu Ile Leu Met Ile
 185 190 195

Gly Glu Asn Pro Ile Ile Arg Ile Lys Asp Met Asn Phe Lys Pro
 200 205 210

Leu Ile Asn Leu Arg Ser Leu Val Ile Ala Gly Ile Asn Leu Thr
 215 220 225

Glu Ile Pro Asp Asn Ala Leu Val Gly Leu Glu Asn Leu Glu Ser
 230 235 240

Ile Ser Phe Tyr Asp Asn Arg Leu Ile Lys Val Pro His Val Ala
 245 250 255

Leu Gln Lys Val Val Asn Leu Lys Phe Leu Asp Leu Asn Lys Asn
 260 265 270

Pro Ile Asn Arg Ile Arg Arg Gly Asp Phe Ser Asn Met Leu His
 275 280 285

Leu Lys Glu Leu Gly Ile Asn Asn Met Pro Glu Leu Ile Ser Ile
 290 295 300

Asp Ser Leu Ala Val Asp Asn Leu Pro Asp Leu Arg Lys Ile Glu
 305 310 315

Ala Thr Asn Asn Pro Arg Leu Ser Tyr Ile His Pro Asn Ala Phe
 320 325 330

Phe Arg Leu Pro Lys Leu Glu Ser Leu Met Leu Asn Ser Asn Ala
 335 340 345

Leu Ser Ala Leu Tyr His Gly Thr Ile Glu Ser Leu Pro Asn Leu

P1618P2C3 sequence listing.txt

350

355

360

Lys Glu Ile Ser Ile His Ser Asn Pro Ile Arg Cys Asp Cys Val
 365 370 375
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 380 385 390
 Pro Asp Ser Leu Phe Cys Val Asp Pro Pro Glu Phe Gln Gly Gln
 395 400 405
 Asn Val Arg Gln Val His Phe Arg Asp Met Met Glu Ile Cys Leu
 410 415 420
 Pro Leu Ile Ala Pro Glu Ser Phe Pro Ser Asn Leu Asn Val Glu
 425 430 435
 Ala Gly Ser Tyr Val Ser Phe His Cys Arg Ala Thr Ala Glu Pro
 440 445 450
 Gln Pro Glu Ile Tyr Trp Ile Thr Pro Ser Gly Gln Lys Leu Leu
 455 460 465
 Pro Asn Thr Leu Thr Asp Lys Phe Tyr Val His Ser Glu Gly Thr
 470 475 480
 Leu Asp Ile Asn Gly Val Thr Pro Lys Glu Gly Gly Leu Tyr Thr
 485 490 495
 Cys Ile Ala Thr Asn Leu Val Gly Ala Asp Leu Lys Ser Val Met
 500 505 510
 Ile Lys Val Asp Gly Ser Phe Pro Gln Asp Asn Asn Gly Ser Leu
 515 520 525
 Asn Ile Lys Ile Arg Asp Ile Gln Ala Asn Ser Val Leu Val Ser
 530 535 540
 Trp Lys Ala Ser Ser Lys Ile Leu Lys Ser Ser Val Lys Trp Thr
 545 550 555
 Ala Phe Val Lys Thr Glu Asn Ser His Ala Ala Gln Ser Ala Arg
 560 565 570
 Ile Pro Ser Asp Val Lys Val Tyr Asn Leu Thr His Leu Asn Pro
 575 580 585
 Ser Thr Glu Tyr Lys Ile Cys Ile Asp Ile Pro Thr Ile Tyr Gln
 590 595 600
 Lys Asn Arg Lys Lys Cys Val Asn Val Thr Thr Lys Gly Leu His
 605 610 615
 Pro Asp Gln Lys Glu Tyr Glu Lys Asn Asn Thr Thr Thr Leu Met
 620 625 630
 Ala Cys Leu Gly Gly Leu Leu Gly Ile Ile Gly Val Ile Cys Leu
 635 640 645
 Ile Ser Cys Leu Ser Pro Glu Met Asn Cys Asp Gly Gly His Ser
 650 655 660
 Tyr Val Arg Asn Tyr Leu Gln Lys Pro Thr Phe Ala Leu Gly Glu

665 P1618P2C3 sequence listing.txt
670 675

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680 685 690

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695 700 705

Asn Met Ser

<210> 70

<211> 1305

<212> DNA

<213> Homo Sapien

<400> 70

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taaccctgttc cctctccatg tgtctcctcc tacaaagttt tggatgttatg 250
atactgtgtt ttcattctgc cagtatgtgt cccaagggt gtctttgttc 300
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aattgccaac aaccctggc actgcgactg tactctacag caagttctga 650
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tggaaactttt tatttcagtt tttttgaat tatgccactg ctgaactttt 1100
aacaaacact acaacataaa taatttgagt ttaggtgatc cacccttaa 1150

P1618P2C3 sequence listing.txt

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caaataAAAG cttaactttG aaccatggGA aaaaaaaaaa aaaaaaaaaa 1300
aaaca 1305

<210> 71
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<212> PRT
<213> Homo Sapien

<400> 71
Met Asn Leu Val Asp Leu Trp Leu Thr Arg Ser Leu Ser Met Cys
1 5 10 15
Leu Leu Leu Gln Ser Phe Val Leu Met Ile Leu Cys Phe His Ser
20 25 30
Ala Ser Met Cys Pro Lys Gly Cys Leu Cys Ser Ser Ser Gly Gly
35 40 45
Leu Asn Val Thr Cys Ser Asn Ala Asn Leu Lys Glu Ile Pro Arg
50 55 60
Asp Leu Pro Pro Glu Thr Val Leu Leu Tyr Leu Asp Ser Asn Gln
65 70 75
Ile Thr Ser Ile Pro Asn Glu Ile Phe Lys Asp Leu His Gln Leu
80 85 90
Arg Val Leu Asn Leu Ser Lys Asn Gly Ile Glu Phe Ile Asp Glu
95 100 105
His Ala Phe Lys Gly Val Ala Glu Thr Leu Gln Thr Leu Asp Leu
110 115 120
Ser Asp Asn Arg Ile Gln Ser Val His Lys Asn Ala Phe Asn Asn
125 130 135
Leu Lys Ala Arg Ala Arg Ile Ala Asn Asn Pro Trp His Cys Asp
140 145 150
Cys Thr Leu Gln Gln Val Leu Arg Ser Met Ala Ser Asn His Glu
155 160 165
Thr Ala His Asn Val Ile Cys Lys Thr Ser Val Leu Asp Glu His
170 175 180
Ala Gly Arg Pro Phe Leu Asn Ala Ala Asn Asp Ala Asp Leu Cys
185 190 195
Asn Leu Pro Lys Lys Thr Thr Asp Tyr Ala Met Leu Val Thr Met
200 205 210
Phe Gly Trp Phe Thr Met Val Ile Ser Tyr Val Val Tyr Tyr Val
215 220 225
Arg Gln Asn Gln Glu Asp Ala Arg Arg His Leu Glu Tyr Leu Lys
230 235 240
Ser Leu Pro Ser Arg Gln Lys Lys Ala Asp Glu Pro Asp Asp Ile

P1618P2C3 sequence listing.txt
245 250 255

Ser Thr Val Val

<210> 72
<211> 2290
<212> DNA
<213> Homo Sapien

<400> 72
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gcagcccatc ctccctgctgg tgctgggctc agtgcgttca ggctcggcca 150
cgggctgccc gccccgctgc gagtgcctcg cccaggaccg cgctgtgctg 200
tgccaccgca agtgcattgt ggcaagtcccc gagggcatcc ccaccgagac 250
gcgcctgctg gacctaggca agaaccgcac caaaacgcac aaccaggacg 300
agttcgccag cttccgcac ctggaggagc tggagctcaa cgagaacatc 350
gtgagcggcg tggagcccg cgcccttcaac aacctttca acctccggac 400
gctgggtctc cgcaagcaacc gcctgaagct catcccgcta ggcgtcttca 450
ctggcctcag caacctgacc aagcaggaca tcagcgagaa caagatcggt 500
atcctactgg actacatgtt tcaggacactg tacaacctca agtcaactgg 550
ggttggcgac aatgacactg tctacatctc tcaccgcgcc ttcaagcggcc 600
tcaacagcct ggagcagctg acgctggaga aatgcaacct gacctccatc 650
cccaccgagg cgctgtccca cctgcacggc ctcatcggtcc tgaggctccg 700
gcacctcaac atcaatgcca tccggacta ctcccttcaag aggctgtacc 750
gactcaaggt cttggagatc tcccactggc cctacttgaa caccatgaca 800
cccaactgcc tctacggcct caacctgacg tccctgtcca tcacacactg 850
caatctgacc gctgtgccct acctggccgt ccggcaccta gtctatctcc 900
gcttcctcaa cctctcctac aaccccatca gcaccattga gggctccatg 950
ttgcatgagc tgctccggct gcaggagatc cagctggtg gggggcagct 1000
ggccgtggtg gagccctatg cttccgcgg cctcaactac ctgcgcgtgc 1050
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cgactgtcgg ctccctgtgg tggccggcg ccgctggcg ctcaacttca 1200
accggcagca gcccacgtgc gccacgcccc agtttgcctca gggcaaggag 1250
ttcaaggact tccctgtatgt gctactgcccc aactacttca cctggccggc 1300

P1618P2C3 sequence listing.txt

cgcccgcatc cgggaccgca aggcccagca ggtgttgc gacgagggcc 1350
acacggtgca gtttgtgc cgggcccgtatc gcgaccgc gcccgcctac 1400
ctctggctct cacccccaaa gcacctggtc tcagccaaga gcaatggcg 1450
gctcacagtc ttccctgtatc gcacgctgga ggtgcgtac gcccaggtac 1500
aggacaacgg cacgtacctg tgcacccggg ccaacgcggg cggcaacgac 1550
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tcagcccaac aagacccatcg ctttcatctc caaccagccg ggcgagggag 1650
aggccaacag cacccgcgc actgtgcctt tccccttcga catcaagacc 1700
ctcatcatcg ccaccacat gggcttcatc tcttcctgg gcgtcgtcct 1750
cttctgcctg gtgctgctgt ttctctggag ccggggcaag ggcaacacaa 1800
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agctccgcgg acgcgcggcc caagttcaac atgaagatga tatgaggccg 1900
gggcgggggg cagggacccc cggggggccg ggcaggggaa ggggcctgg 1950
cgccacccgtca tcactctcca gtccttccca cctcctccct acccttctac 2000
acacgttctc tttctccctc ccgcctccgt cccctgctgc ccccccggcag 2050
ccctcaccac ctgccccttc tctaccagga cctcagaagc ccagacctgg 2100
ggacccacc tacacagggg cattgacaga ctggagttga aagccgacga 2150
accgacacgc ggcagagtca ataattcaat aaaaaagtttta cgaactttct 2200
ctgtaacttg ggtttcaata attatggatt tttatgaaaa ctgaaataa 2250
taaaaaagaga aaaaaactaa aaaaaaaaaa aaaaaaaaaa 2290

<210> 73

<211> 620

<212> PRT

<213> Homo Sapien

<400> 73

Met Gln Val Ser Lys Arg Met Leu Ala Gly Gly Val Arg Ser Met
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Pro Ser Pro Leu Leu Ala Cys Trp Gln Pro Ile Leu Leu Leu Val
20 25 30

Leu Gly Ser Val Leu Ser Gly Ser Ala Thr Gly Cys Pro Pro Arg
35 40 45

Cys Glu Cys Ser Ala Gln Asp Arg Ala Val Leu Cys His Arg Lys
50 55 60

Cys Phe Val Ala Val Pro Glu Gly Ile Pro Thr Glu Thr Arg Leu
65 70 75

Leu Asp Leu Gly Lys Asn Arg Ile Lys Thr Leu Asn Gln Asp Glu
80 85 90

P1618P2C3 sequence listing.txt

Phe Ala Ser Phe Pro His Leu Glu Glu Leu Glu Leu Asn Glu Asn
95 100 105
Ile Val Ser Ala Val Glu Pro Gly Ala Phe Asn Asn Leu Phe Asn
110 115 120
Leu Arg Thr Leu Gly Leu Arg Ser Asn Arg Leu Lys Leu Ile Pro
125 130 135
Leu Gly Val Phe Thr Gly Leu Ser Asn Leu Thr Lys Gln Asp Ile
140 145 150
Ser Glu Asn Lys Ile Val Ile Leu Leu Asp Tyr Met Phe Gln Asp
155 160 165
Leu Tyr Asn Leu Lys Ser Leu Glu Val Gly Asp Asn Asp Leu Val
170 175 180
Tyr Ile Ser His Arg Ala Phe Ser Gly Leu Asn Ser Leu Glu Gln
185 190 195
Leu Thr Leu Glu Lys Cys Asn Leu Thr Ser Ile Pro Thr Glu Ala
200 205 210
Leu Ser His Leu His Gly Leu Ile Val Leu Arg Leu Arg His Leu
215 220 225
Asn Ile Asn Ala Ile Arg Asp Tyr Ser Phe Lys Arg Leu Tyr Arg
230 235 240
Leu Lys Val Leu Glu Ile Ser His Trp Pro Tyr Leu Asp Thr Met
245 250 255
Thr Pro Asn Cys Leu Tyr Gly Leu Asn Leu Thr Ser Leu Ser Ile
260 265 270
Thr His Cys Asn Leu Thr Ala Val Pro Tyr Leu Ala Val Arg His
275 280 285
Leu Val Tyr Leu Arg Phe Leu Asn Leu Ser Tyr Asn Pro Ile Ser
290 295 300
Thr Ile Glu Gly Ser Met Leu His Glu Leu Leu Arg Leu Gln Glu
305 310 315
Ile Gln Leu Val Gly Gln Leu Ala Val Val Glu Pro Tyr Ala
320 325 330
Phe Arg Gly Leu Asn Tyr Leu Arg Val Leu Asn Val Ser Gly Asn
335 340 345
Gln Leu Thr Thr Leu Glu Glu Ser Val Phe His Ser Val Gly Asn
350 355 360
Leu Glu Thr Leu Ile Leu Asp Ser Asn Pro Leu Ala Cys Asp Cys
365 370 375
Arg Leu Leu Trp Val Phe Arg Arg Arg Trp Arg Leu Asn Phe Asn
380 385 390
Arg Gln Gln Pro Thr Cys Ala Thr Pro Glu Phe Val Gln Gly Lys
395 400 405

P1618P2C3 sequence listing.txt

Glu Phe Lys Asp Phe Pro Asp Val Leu Leu Pro Asn Tyr Phe Thr
410 415 420

Cys Arg Arg Ala Arg Ile Arg Asp Arg Lys Ala Gln Gln Val Phe
425 430 435

Val Asp Glu Gly His Thr Val Gln Phe Val Cys Arg Ala Asp Gly
440 445 450

Asp Pro Pro Pro Ala Ile Leu Trp Leu Ser Pro Arg Lys His Leu
455 460 465

Val Ser Ala Lys Ser Asn Gly Arg Leu Thr Val Phe Pro Asp Gly
470 475 480

Thr Leu Glu Val Arg Tyr Ala Gln Val Gln Asp Asn Gly Thr Tyr
485 490 495

Leu Cys Ile Ala Ala Asn Ala Gly Gly Asn Asp Ser Met Pro Ala
500 505 510

His Leu His Val Arg Ser Tyr Ser Pro Asp Trp Pro His Gln Pro
515 520 525

Asn Lys Thr Phe Ala Phe Ile Ser Asn Gln Pro Gly Glu Gly Glu
530 535 540

Ala Asn Ser Thr Arg Ala Thr Val Pro Phe Pro Phe Asp Ile Lys
545 550 555

Thr Leu Ile Ile Ala Thr Thr Met Gly Phe Ile Ser Phe Leu Gly
560 565 570

Val Val Leu Phe Cys Leu Val Leu Leu Phe Leu Trp Ser Arg Gly
575 580 585

Lys Gly Asn Thr Lys His Asn Ile Glu Ile Glu Tyr Val Pro Arg
590 595 600

Lys Ser Asp Ala Gly Ile Ser Ser Ala Asp Ala Pro Arg Lys Phe
605 610 615

Asn Met Lys Met Ile
620

<210> 74
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 74
tcacacctggag cctttattgg cc 22

<210> 75
<211> 23
<212> DNA
<213> Artificial sequence

<220>

P1618P2C3 sequence listing.txt

<223> Synthetic Oligonucleotide Probe

<400> 75
ataccagcta taaccaggct gcg 23

<210> 76
<211> 52
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe.

<400> 76
caacagtaag tggtttgatg ctcttccaaa tcttagagatt ctgatgattg 50
gg 52

<210> 77
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 77
ccatgtgtct cctcctacaa ag 22

<210> 78
<211> 23
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 78
gggaatagat gtgatctgat tgg 23

<210> 79
<211> 50
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 79
cacctgttagc aatgcaaatc tcaaggaaat accttagagat cttcctcctg 50

<210> 80
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 80
agcaaccgcc tgaagctcat cc 22

<210> 81

P1618P2C3 sequence listing.txt

<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 81
aaggcgcggt gaaagatgta gacg 24

<210> 82
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 82
gactacatgt ttcaggacct gtacaacctc aagtcaactgg agttggcga 50

<210> 83
<211> 1685
<212> DNA
<213> Homo Sapien

<400> 83
cccacgcgtc cgcacacctgg ccccgggctc cgaagcggct cggggcgcc 50
cttcggtca acatcgtagt ccacccctc cccatcccc aaaaaaaaaaaaaaaa 100
attcaggctc gccagcgtcc agccaggag ccggccggga agcgcgtatgg 150
gggccccagc cgccctcgctc ctgctccctgc tcctgctgtt cgccctgctgc 200
tgggcgccccg gcggggccaa cctctcccaag gacgacagcc agccctggac 250
atctgtgaa acagtggtgg ctggtgac cgtggtgctc aagtgc当地 300
tcaaagatca cgaggactca tccctgcaat ggtctaaccct tgctcagcag 350
actctctact ttggggagaa gagagccctt cgagataatc gaattcagct 400
ggttacctct acgccccacg agtcagcat cagcatcagc aatgtggccc 450
tggcagacga gggcgagtac acctgctcaa tcttcactat gcctgtgcga 500
actgccaagt ccctcgac tggcttagga attccacaga agcccatcat 550
cactggttat aaatcttcat tacggggaaaa agacacagcc accctaaact 600
gtcagtcttc tgggagcaag cctgcagccc ggctcacctg gagaaagggt 650
gaccaagaac tccacggaga accaaccgc atacaggaag atcccaatgg 700
taaaaccttc actgtcagca gctcggtgac attccaggtt accccgggagg 750
atgatggggc gagcatcgat tgctctgtga accatgaatc tctaaaggga 800
gctgacagat ccacctctca acgcattgaa gttttataca caccaactgc 850
gatgattagg ccagaccctc cccatcctcg tgagggccag aagctgtgc 900

P1618P2C3 sequence listing.txt

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aaggagggca gtgtgccacc cctgaagatg acccaggaga gtgccctgat 1000
cttccctttc ctcaacaaga gtgacagtgg cacctacggc tgcacagcca 1050
ccagcaacat gggcagctac aaggcctact acaccctcaa tgttaatgac 1100
cccagtcgg tgccctcctc ctccagcacc taccacgcca tcatacggtgg 1150
gatcgtggct ttcattgtct tcctgctgct catcatgctc atcttccttg 1200
gccactactt gatccggcac aaaggaacct acctgacaca tgaggcaaaa 1250
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cgggcagtca ggaggggacg acaagaagga atatttcatc tagaggcgcc 1350
tgcccacttc ctgcgcffff cagggggccct gtggggactg ctggggccgt 1400
caccaacccg gacttgtaca gagcaaccgc agggccgccc ctcccgcttg 1450
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ttgtaacaat cccaaatcaa atctgtctcc aggctggaga ggcaggagcc 1650
ctggggtgag aaaagcaaaa aacaaacaaa aaaca 1685

<210> 84

<211> 398

<212> PRT

<213> Homo Sapien

<400> 84

Met	Gly	Ala	Pro	Ala	Ala	Ser	Leu	Phe						
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				20					25				30	
Ser	Gln	Pro	Trp	Thr	Ser	Asp	Glu	Thr	Val	Val	Ala	Gly	Gly	Thr
				35					40				45	
Val	Val	Leu	Lys	Cys	Gln	Val	Lys	Asp	His	Glu	Asp	Ser	Ser	Leu
				50					55				60	
Gln	Trp	Ser	Asn	Pro	Ala	Gln	Gln	Thr	Leu	Tyr	Phe	Gly	Glu	Lys
				65					70				75	
Arg	Ala	Leu	Arg	Asp	Asn	Arg	Ile	Gln	Leu	Val	Thr	Ser	Thr	Pro
				80					85				90	
His	Glu	Leu	Ser	Ile	Ser	Ile	Ser	Asn	Val	Ala	Leu	Ala	Asp	Glu
				95					100				105	
Gly	Glu	Tyr	Thr	Cys	Ser	Ile	Phe	Thr	Met	Pro	Val	Arg	Thr	Ala
				110					115				120	
Lys	Ser	Leu	Val	Thr	Val	Leu	Gly	Ile	Pro	Gln	Lys	Pro	Ile	Ile

P1618P2C3 sequence listing.txt
125 130 135

Thr Gly Tyr Lys Ser Ser Leu Arg Glu Lys Asp Thr Ala Thr Leu
140 145 150
Asn Cys Gln Ser Ser Gly Ser Lys Pro Ala Ala Arg Leu Thr Trp
155 160 165
Arg Lys Gly Asp Gln Glu Leu His Gly Glu Pro Thr Arg Ile Gln
170 175 180
Glu Asp Pro Asn Gly Lys Thr Phe Thr Val Ser Ser Ser Val Thr
185 190 195
Phe Gln Val Thr Arg Glu Asp Asp Gly Ala Ser Ile Val Cys Ser
200 205 210
Val Asn His Glu Ser Leu Lys Gly Ala Asp Arg Ser Thr Ser Gln
215 220 225
Arg Ile Glu Val Leu Tyr Thr Pro Thr Ala Met Ile Arg Pro Asp
230 235 240
Pro Pro His Pro Arg Glu Gly Gln Lys Leu Leu Leu His Cys Glu
245 250 255
Gly Arg Gly Asn Pro Val Pro Gln Gln Tyr Leu Trp Glu Lys Glu
260 265 270
Gly Ser Val Pro Pro Leu Lys Met Thr Gln Glu Ser Ala Leu Ile
275 280 285
Phe Pro Phe Leu Asn Lys Ser Asp Ser Gly Thr Tyr Gly Cys Thr
290 295 300
Ala Thr Ser Asn Met Gly Ser Tyr Lys Ala Tyr Tyr Thr Leu Asn
305 310 315
Val Asn Asp Pro Ser Pro Val Pro Ser Ser Ser Ser Thr Tyr His
320 325 330
Ala Ile Ile Gly Ile Val Ala Phe Ile Val Phe Leu Leu Leu
335 340 345
Ile Met Leu Ile Phe Leu Gly His Tyr Leu Ile Arg His Lys Gly
350 355 360
Thr Tyr Leu Thr His Glu Ala Lys Gly Ser Asp Asp Ala Pro Asp
365 370 375
Ala Asp Thr Ala Ile Ile Asn Ala Glu Gly Gly Gln Ser Gly Gly
380 385 390
Asp Asp Lys Lys Glu Tyr Phe Ile
395

<210> 85

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

P1618P2C3 sequence listing.txt

<400> 85
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<210> 86
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic oligonucleotide Probe

<400> 86
aacctggaat gtcaccgagc tg 22

<210> 87
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 87
ccttagcacag tgacgaggga ctggc 26

<210> 88
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 88
aagacacagc caccctaaac tgtcagtctt ctgggagcaa gcctgcagcc 50

<210> 89
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Sequence

<400> 89
gccctggcag acgagggcga gtacacctgc tcaatcttca ctatgcgtgt 50

<210> 90
<211> 2755
<212> DNA
<213> Homo Sapien

<400> 90
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ctcctttctt ggcttcggac attggagcac taaatgaact tgaattgtgt 100
ctgtggcgag caggatggtc gctgttactt tgtgtatgaga tcggggatga 150
attgctcgct ttaaaaatgc tgctttggat tctgttgctg gagacgtctc 200
tttgtttgc cgctggaaac gttacagggg acgtttgcaa agagaagatc 250

P1618P2C3 sequence listing.txt

tgttcctgca atgagataga aggggaccta cacgtagact gtgaaaaaaaa 300
gggcttcaca agtctgcagc gtttcaactgc cccgacttcc cagttttacc 350
atttatttct gcatggcaat tccctcaactc gactttccc taatgagttc 400
gctaactttt ataatgcggt tagttgcac atggaaaaca atggcttgca 450
tgaatcggtt ccgggggctt ttctgggct gcagctggtg aaaaggctgc 500
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ctggacgatc tggaatatct ccaggctgat ttaatttat tacgagatat 600
agacccgggg gccttcagg acttgaacaa gctggaggtg ctcattttaa 650
atgacaatct catcagcacc ctacctgcc aCGTGTCCA gtatgtgcc 700
atcacccacc tcgacctccg ggttaacagg ctgaaaacgc tgccctatga 750
ggaggtcttg gagcaaATCC ctggattgc ggagatcctg ctagaggata 800
acccttggga ctgcacctgt gatctgctct ccctgaaaga atggctggaa 850
aacattccca agaatGCCt gatcgccga gtggctgctg aagccccac 900
cagactgcag ggtaaagacc tcaatgaaac caccgaacag gacttgtgc 950
cttggaaaaa ccgagtggt tctagtctcc cggcgcccc tgcccaagaa 1000
gagacctttg ctccctggacc cctgccaact ccttcaaga caaatggca 1050
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gagctttcc tacgagataa caagatccac agcatccaa aatcgactt 1350
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ctactgtaga gaacaacact ttcaagaacc ttttggacct caggtggcta 1450
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gctgcaaaac ctagagtacc tgaacgtgga gtacaacgct atccagctca 1550
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aacaacaacc tgctgaggtc cctgcctgtg gacgtttcg ctgggtctc 1650
gctctctaaa ctcagcctgc acaacaatta cttcatgtac ctcccggtgg 1700
caggggtgct ggaccagtta acctccatca tccagataga cctccacgga 1750
aacccttggg agtgctcctg cacaattgtg ccttcaagc agtgggcaga 1800

P1618P2C3 sequence listing.txt

acgcttgggt tccgaagtgc tcatgagcga cctcaagtgt gagacgccgg 1850
tgaacttctt tagaaaggat ttcatgctcc tctccaatga cgagatctgc 1900
cctcagctgt acgcttaggat ctcgcccacg ttaacttcgc acagtaaaaa 1950
cagcaactggg ttggcgaga ccgggacgca ctccaactcc tacctagaca 2000
ccagcagggt gtccatctcg gtgttgtcc cgggactgct gctgggttt 2050
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aacgcagatg gggcccacag agtgtatgac tgtggctctc actcgctctc 2250
agactaagac cccaaacccca ataggggagg gcagaggaa ggcgatacat 2300
cttccccac cgcaggcacc ccggggcgtg gaggggcgtg tacccaaatc 2350
cccgcccat cagcctggat gggcataagt agataaataa ctgtgagctc 2400
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ggcagttgc acgaaggcat gaatgtattt taaataagta acttgactt 2750
ctgac 2755

<210> 91

<211> 696

<212> PRT

<213> Homo Sapien

<400> 91

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Ala	Gly	Asn	Val	Thr	Gly	Asp	Val	Cys	Lys	Glu	Lys	Ile	Cys	Ser
					20			25				30		
Cys	Asn	Glu	Ile	Glu	Gly	Asp	Leu	His	Val	Asp	Cys	Glu	Lys	Lys
					35			40				45		
Gly	Phe	Thr	Ser	Leu	Gln	Arg	Phe	Thr	Ala	Pro	Thr	Ser	Gln	Phe
					50			55				60		
Tyr	His	Leu	Phe	Leu	His	Gly	Asn	Ser	Leu	Thr	Arg	Leu	Phe	Pro
					65			70				75		
Asn	Glu	Phe	Ala	Asn	Phe	Tyr	Asn	Ala	Val	Ser	Leu	His	Met	Glu
					80			85				90		

P1618P2C3 sequence listing.txt

Asn	Asn	Gly	Leu	His	Glu	Ile	Val	Pro	Gly	Ala	Phe	Leu	Gly	Leu
				95				100					105	
Gln	Leu	Val	Lys	Arg	Leu	His	Ile	Asn	Asn	Asn	Lys	Ile	Lys	Ser
				110				115					120	
Phe	Arg	Lys	Gln	Thr	Phe	Leu	Gly	Leu	Asp	Asp	Leu	Glu	Tyr	Leu
				125				130					135	
Gln	Ala	Asp	Phe	Asn	Leu	Leu	Arg	Asp	Ile	Asp	Pro	Gly	Ala	Phe
				140				145					150	
Gln	Asp	Leu	Asn	Lys	Leu	Glu	Val	Leu	Ile	Leu	Asn	Asp	Asn	Leu
				155				160					165	
Ile	Ser	Thr	Leu	Pro	Ala	Asn	Val	Phe	Gln	Tyr	Val	Pro	Ile	Thr
				170				175					180	
His	Leu	Asp	Leu	Arg	Gly	Asn	Arg	Leu	Lys	Thr	Leu	Pro	Tyr	Glu
				185				190					195	
Glu	Val	Leu	Glu	Gln	Ile	Pro	Gly	Ile	Ala	Glu	Ile	Leu	Leu	Glu
				200				205					210	
Asp	Asn	Pro	Trp	Asp	Cys	Thr	Cys	Asp	Leu	Leu	Ser	Leu	Lys	Glu
				215				220					225	
Trp	Leu	Glu	Asn	Ile	Pro	Lys	Asn	Ala	Leu	Ile	Gly	Arg	Val	Val
				230				235					240	
Cys	Glu	Ala	Pro	Thr	Arg	Leu	Gln	Gly	Lys	Asp	Leu	Asn	Glu	Thr
				245				250					255	
Thr	Glu	Gln	Asp	Leu	Cys	Pro	Leu	Lys	Asn	Arg	Val	Asp	Ser	Ser
				260				265					270	
Leu	Pro	Ala	Pro	Pro	Ala	Gln	Glu	Glu	Thr	Phe	Ala	Pro	Gly	Pro
				275				280					285	
Leu	Pro	Thr	Pro	Phe	Lys	Thr	Asn	Gly	Gln	Glu	Asp	His	Ala	Thr
				290				295					300	
Pro	Gly	Ser	Ala	Pro	Asn	Gly	Gly	Thr	Lys	Ile	Pro	Gly	Asn	Trp
				305				310					315	
Gln	Ile	Lys	Ile	Arg	Pro	Thr	Ala	Ala	Ile	Ala	Thr	Gly	Ser	Ser
				320				325					330	
Arg	Asn	Lys	Pro	Leu	Ala	Asn	Ser	Leu	Pro	Cys	Pro	Gly	Gly	Cys
				335				340					345	
Ser	Cys	Asp	His	Ile	Pro	Gly	Ser	Gly	Leu	Lys	Met	Asn	Cys	Asn
				350				355					360	
Asn	Arg	Asn	Val	Ser	Ser	Leu	Ala	Asp	Leu	Lys	Pro	Lys	Leu	Ser
				365				370					375	
Asn	Val	Gln	Glu	Leu	Phe	Leu	Arg	Asp	Asn	Lys	Ile	His	Ser	Ile
				380				385					390	
Arg	Lys	Ser	His	Phe	Val	Asp	Tyr	Lys	Asn	Leu	Ile	Leu	Leu	Asp
				395				400					405	

P1618P2C3 sequence listing.txt

Leu	Gly	Asn	Asn	Asn	Ile	Ala	Thr	val	Glu	Asn	Asn	Thr	Phe	Lys
					410				415					420
Asn	Leu	Leu	Asp	Leu	Arg	Trp	Leu	Tyr	Met	Asp	Ser	Asn	Tyr	Leu
				425				430						435
Asp	Thr	Leu	Ser	Arg	Glu	Lys	Phe	Ala	Gly	Leu	Gln	Asn	Leu	Glu
				440				445						450
Tyr	Leu	Asn	Val	Glu	Tyr	Asn	Ala	Ile	Gln	Leu	Ile	Leu	Pro	Gly
				455				460						465
Thr	Phe	Asn	Ala	Met	Pro	Lys	Leu	Arg	Ile	Leu	Ile	Leu	Asn	Asn
				470				475						480
Asn	Leu	Leu	Arg	Ser	Leu	Pro	Val	Asp	val	Phe	Ala	Gly	Val	Ser
				485				490						495
Leu	Ser	Lys	Leu	Ser	Leu	His	Asn	Asn	Tyr	Phe	Met	Tyr	Leu	Pro
				500					505					510
val	Ala	Gly	val	Leu	Asp	Gln	Leu	Thr	Ser	Ile	Ile	Gln	Ile	Asp
				515				520						525
Leu	His	Gly	Asn	Pro	Trp	Glu	Cys	Ser	Cys	Thr	Ile	val	Pro	Phe
				530				535						540
Lys	Gln	Trp	Ala	Glu	Arg	Leu	Gly	Ser	Glu	val	Leu	Met	Ser	Asp
				545				550						555
Leu	Lys	Cys	Glu	Thr	Pro	val	Asn	Phe	Phe	Arg	Lys	Asp	Phe	Met
				560				565						570
Leu	Leu	Ser	Asn	Asp	Glu	Ile	Cys	Pro	Gln	Leu	Tyr	Ala	Arg	Ile
				575				580						585
Ser	Pro	Thr	Leu	Thr	Ser	His	Ser	Lys	Asn	Ser	Thr	Gly	Leu	Ala
				590				595						600
Glu	Thr	Gly	Thr	His	Ser	Asn	Ser	Tyr	Leu	Asp	Thr	Ser	Arg	val
				605				610						615
Ser	Ile	Ser	val	Leu	val	Pro	Gly	Leu	Leu	Leu	val	Phe	Val	Thr
				620				625						630
Ser	Ala	Phe	Thr	val	val	Gly	Met	Leu	Val	Phe	Ile	Leu	Arg	Asn
				635				640						645
Arg	Lys	Arg	Ser	Lys	Arg	Arg	Asp	Ala	Asn	Ser	Ser	Ala	Ser	Glu
				650				655						660
Ile	Asn	Ser	Leu	Gln	Thr	val	Cys	Asp	Ser	Ser	Tyr	Trp	His	Asn
				665				670						675
Gly	Pro	Tyr	Asn	Ala	Asp	Gly	Ala	His	Arg	val	Tyr	Asp	Cys	Gly
				680				685						690
Ser	His	Ser	Leu	Ser	Asp									
				695										

P1618P2C3 sequence listing.txt

<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 92
gttggatctg ggcaacaata ac 22

<210> 93
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 93
attgttgtgc aggctgagtt taag 24

<210> 94
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 94
ggtggtata catggatagc aattacctgg acacgctgtc ccggg 45

<210> 95
<211> 2226
<212> DNA
<213> Homo Sapien

<400> 95
agtgcactgc gtccctgtta cccggcgcca gctgtgttcc tgaccccaga 50
ataactcagg gctgcaccgg gcctggcagc gctccgcaca catttcctgt 100
cgcggcctaa gggaaactgt tggccgctgg gcccgcgggg ggattcttgg 150
cagttggggg gtccgtcggg agcgaggcg gaggggaaagg gagggggAAC 200
cgggttgggg aagccagctg tagagggcgg tgaccgcgt ccagacacag 250
ctctgcgtcc tcgagcggga cagatccaag ttgggagcag ctctgcgtgc 300
ggggcctcag agaatgaggc cggcgttcgc cctgtgcctc ctctggcagg 350
cgctctggcc cgggcccggc ggcggcgaac accccactgc cgaccgtgct 400
ggctgctcgg cctcgggggc ctgctacagc ctgcaccacg ctaccatgaa 450
gcggcaggcg gccgaggagg cctgcattcct gcgagggtggg gcgctcagca 500
ccgtgcgtgc gggcgcggag ctgcgcgtg tgctcgcgt cctgcgggca 550
ggccccagggc ccggaggggg ctccaaagac ctgctgttct gggtcgcact 600
ggagcgcagg cgttccact gcaccctgga gaacgagcct ttgcggggtt 650

P1618P2C3 sequence listing.txt

tctcctggct gtcctccgac cccggcggtc tcgaaagcga cacgctgcag 700
tgggtggagg agccccaaacg ctccctgcacc gcgcggagat gcgcggtaact 750
ccaggccacc ggtggggtcg agcccgcagg ctggaaggag atgcgatgcc 800
acctgcgcgc caacggctac ctgtcaagt accagttga ggtcttgtgt 850
cctgcgcgcg gccccggggc cgccctctaac ttgagctatc gcgcgcctt 900
ccagctgcac agcgccgctc tggacttcag tccacctggg accgaggtga 950
gtgcgcctcg ccggggacag ctcccgatct cagttacttg catgcggac 1000
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ccccgggagg tacctccgtg ctggcaaattg cgccagagctc cctaactgcc 1100
tagacgactt gggaggctt gcctgcgaat gtgctacggg cttcgagctg 1150
gggaaggacg gccgctttg tgtgaccagt gggaaaggac agccgaccct 1200
tggggggacc ggggtgcccc caaggcgccc gccggccact gcaaccagcc 1250
ccgtgcgcga gagaacatgg ccaatcaggg tcgacgagaa gctgggagag 1300
acaccacttg tccctgaaca agacaattca gtaacatcta ttccctgagat 1350
tcctcgatgg ggatcacaga gcacgatgtc tacccttcaa atgtcccttc 1400
aagccgagtc aaaggccact atcacccat cagggagcgt gatttccaag 1450
ttaattcta cgacttcctc tgccactcct caggcttcg actcctcctc 1500
tgccgtggtc ttcatatttg tgacgacagc agtagtagtg ttggtgatct 1550
tgaccatgac agtactgggg cttgtcaagc tctgcttcg cggaaagcccc 1600
tcittcccagc caaggaagga gtctatgggc ccgcccggcc tggagagtga 1650
tcctgagccc gctgcttcg gctccagttc tgcacattgc acaaacaatg 1700
gggtgaaagt cggggactgt gatctgcggg acagagcaga gggtgccctg 1750
ctggcggagt cccctttgg ctctagtgtat gcatagggaa acaggggaca 1800
tgggcactcc tgtgaacagt tttcacttt tggatgaaacg gggaaaccaag 1850
aggaacttac ttgttaact gacaattct gcagaatcc cccttcctc 1900
aaattccctt tactccactg aggagctaaa tcagaactgc acactccctc 1950
cctgatgata gaggaagtgg aagtgccttt aggatggta tactggggga 2000
ccgggttagt ctggggagag atatttctt atgtttattc ggagaatttg 2050
gagaagtgtat tgaactttc aagacattgg aaacaaatag aacacaatat 2100
aatttacatt aaaaaataat ttctacaaa atggaaagga aatgttctat 2150
gttggttcagg ctaggagttat attggttcga aatcccaggg aaaaaaataa 2200
aaataaaaaaa tttaaaggatt gttgat 2226

P1618P2C3 sequence listing.txt

<210> 96
<211> 490
<212> PRT
<213> Homo Sapien

<400> 96
Met Arg Pro Ala Phe Ala'Leu Cys Leu Leu Trp Gln Ala Leu Trp
1 5 10 15
Pro Gly Pro Gly Gly Glu His Pro Thr Ala Asp Arg Ala Gly
20 25 30
cys Ser Ala Ser Gly Ala Cys Tyr Ser Leu His His Ala Thr Met
35 40 45
Lys Arg Gln Ala Ala Glu Glu Ala Cys Ile Leu Arg Gly Gly Ala
50 55 60
Leu Ser Thr Val Arg Ala Gly Ala Glu Leu Arg Ala Val Leu Ala
65 70 75
Leu Leu Arg Ala Gly Pro Gly Pro Gly Gly Ser Lys Asp Leu
80 85 90
Leu Phe Trp Val Ala Leu Glu Arg Arg Arg Ser His Cys Thr Leu
95 100 105
Glu Asn Glu Pro Leu Arg Gly Phe Ser Trp Leu Ser Ser Asp Pro
110 115 120
Gly Gly Leu Glu Ser Asp Thr Leu Gln Trp val Glu Glu Pro Gln
125 130 135
Arg Ser Cys Thr Ala Arg Arg Cys Ala Val Leu Gln Ala Thr Gly
140 145 150
Gly val Glu Pro Ala Gly Trp Lys Glu Met Arg Cys His Leu Arg
155 160 165
Ala Asn Gly Tyr Leu Cys Lys Tyr Gln Phe Glu Val Leu Cys Pro
170 175 180
Ala Pro Arg Pro Gly Ala Ala Ser Asn Leu Ser Tyr Arg Ala Pro
185 190 195
Phe Gln Leu His Ser Ala Ala Leu Asp Phe Ser Pro Pro Gly Thr
200 205 210
Glu val Ser Ala Leu Cys Arg Gly Gln Leu Pro Ile Ser Val Thr
215 220 225
Cys Ile Ala Asp Glu Ile Gly Ala Arg Trp Asp Lys Leu Ser Gly
230 235 240
Asp Val Leu Cys Pro Cys Pro Gly Arg Tyr Leu Arg Ala Gly Lys
245 250 255
Cys Ala Glu Leu Pro Asn Cys Leu Asp Asp Leu Gly Gly Phe Ala
260 265 270
Cys Glu Cys Ala Thr Gly Phe Glu Leu Gly Lys Asp Gly Arg Ser
275 280 285

P1618P2C3 sequence listing.txt

Cys Val Thr Ser Gly Glu Gly Gln Pro Thr Leu Gly Gly Thr Gly
290 295 300
Val Pro Thr Arg Arg Pro Pro Ala Thr Ala Thr Ser Pro Val Pro
305 310 315
Gln Arg Thr Trp Pro Ile Arg Val Asp Glu Lys Leu Gly Glu Thr
320 325 330
Pro Leu Val Pro Glu Gln Asp Asn Ser Val Thr Ser Ile Pro Glu
335 340 345
Ile Pro Arg Trp Gly Ser Gln Ser Thr Met Ser Thr Leu Gln Met
350 355 360
Ser Leu Gln Ala Glu Ser Lys Ala Thr Ile Thr Pro Ser Gly Ser
365 370 375
Val Ile Ser Lys Phe Asn Ser Thr Thr Ser Ser Ala Thr Pro Gln
380 385 390
Ala Phe Asp Ser Ser Ser Ala Val Val Phe Ile Phe Val Ser Thr
395 400 405
Ala Val Val Val Leu Val Ile Leu Thr Met Thr Val Leu Gly Leu
410 415 420
Val Lys Leu Cys Phe His Glu Ser Pro Ser Ser Gln Pro Arg Lys
425 430 435
Glu Ser Met Gly Pro Pro Gly Leu Glu Ser Asp Pro Glu Pro Ala
440 445 450
Ala Leu Gly Ser Ser Ser Ala His Cys Thr Asn Asn Gly Val Lys
455 460 465
Val Gly Asp Cys Asp Leu Arg Asp Arg Ala Glu Gly Ala Leu Leu
470 475 480
Ala Glu Ser Pro Leu Gly Ser Ser Asp Ala
485 490

<210> 97
<211> 24
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 97
tggaaaggaga tgcgtatgccca cctg 24

<210> 98
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 98

P1618P2C3 sequence listing.txt

tgaccagtgg ggaaggacag 20
<210> 99
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 99
acagagcaga gggtgccttg 20

<210> 100
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 100
tcagggacaa gtgggtctc tccc 24

<210> 101
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 101
tcagggaaagg agtgtcgagt tctg 24

<210> 102
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 102
acagctcccg atctcagttt cttgcattgc ggacgaaatc ggcgctcgct 50

<210> 103
<211> 2026
<212> DNA
<213> Homo Sapien

<400> 103
cgacgcgtg ggattcagca gtggcctgtg gctgccagag cagctcctca 50
ggggaaacta agcgtcgagt cagacggcac cataatcgcc tttaaaagt 100
cctccgcctt gccggccgcg tatccccgg ctacctggc cccccgcgg 150
cggtgcgcgc gtgagagggc gcgcgcggc agccgagcgc cggtgtgagc 200
cagcgctgct gccagtgtga gcggcggtgt gagcgcgggtg ggtgcggagg 250
ggcgtgtgtg ccggcgccgcg cgccgtgggg tgcaaaccgg gagcgtctac 300

P1618P2C3 sequence listing.txt

gctgccatga ggggcgcgaa cgccctggcg ccactctgcc tgctgctggc 350
tgccgccacc cagctctcgc ggcagcagtc cccagagaga cctgtttca 400
catgtggtgg cattcttact ggagagtctg gatttattgg cagtgaaggt 450
tttcctggag tgtacccctcc aaatagcaaa tgtacttgga aaatcacagt 500
tcccgaagga aaagtagtcg ttctcaattt ccgattcata gacctcgaga 550
gtgacaacct gtgccgctat gactttgtgg atgtgtacaa tggccatgcc 600
aatggccagc gcattggccg cttctgtggc actttccggc ctggagccct 650
tgtgtccagt ggcaacaaga ttagtggtgca gatgatttct gatgccaaca 700
cagctggcaa tggcttcatg gccatgttct ccgctgctga accaaacgaa 750
agaggggatc agtattgtgg aggactcctt gacagacctt ccggctcttt 800
taaaaccccc aactggccag accgggatta ccctgcagga gtcacttg 850
tgtggcacat tgtagcccc aagaatcagc ttatagaatt aaagtttgag 900
aagtttcatg tggagcgaga taactactgc cgatatgatt atgtggctgt 950
gtttaatggc ggggaagtca acgatgctag aagaatttgg aagtatttg 1000
gtgatagtcc acctgcgcca attgtgtctg agagaaatga acttcttatt 1050
cagttttat cagacttaag tttaactgca gatgggtta ttggtcacta 1100
catattcagg ccaaaaaaac tgcctacaac tacagaacag cctgtcacca 1150
ccacattccc tgtaaccacg ggtttaaaac ccaccgtggc ctgtgtcaa 1200
caaaagtgt a gacggacggg gactctggag ggcaatttatt gttcaagtga 1250
cttgcatttta gcccgcactg ttatcacaac catcaactgc gatgggagtt 1300
tgcacgccc acgtctcgatc atcaacatct acaaagaggg aaatttggcg 1350
attcagcagg cgggcaagaa catgagtgcc aggctgactg tcgtctgcaa 1400
gcagtgcct ctcctcagaa gaggtctaaa ttacatttatt atgggccaag 1450
taggtgaaga tgggcaggg aaaatcatgc caaacagctt tatcatgatg 1500
ttcaagacca agaatcagaa gctcctggat gcctaaaaa ataagcaatg 1550
ttaacagtga actgtgtcca tttaagctgt attctgccat tgcctttgaa 1600
agatctatgt tctctcagta gaaaaaaaa tacttataaa attacatatt 1650
ctgaaagagg attccgaaag atgggactgg ttgactcttc acatgatgga 1700
ggtatgaggg ctccgagata gctgaggaa gttcttgcc tgctgtcaga 1750
ggagcagcta tctgatttggaa aacctgcccga cttagtgccg tgataggaag 1800
ctaaaagtgt caagcgttga cagcttggaa gcgtttattt atacatctct 1850

P1618P2C3 sequence listing.txt

gtaaaaggat attttagaat tgagttgtgt gaagatgtca aaaaaagatt 1900
ttagaagtgc aatatttata gtgttatttg tttcaccttc aagccttgc 1950
cctgaggtgt tacaatcttgc tcttgcgttt tctaaatcaa tgcttaataa 2000
aatattttta aaggaaaaaa aaaaaaa 2026

<210> 104

<211> 415

<212> PRT

<213> Homo Sapien

<400> 104
Met Arg Gly Ala Asn Ala Trp Ala Pro Leu Cys Leu Leu Ala
1 5 10 15
Ala Ala Thr Gln Leu Ser Arg Gln Gln Ser Pro Glu Arg Pro Val
20 25 30
Phe Thr Cys Gly Gly Ile Leu Thr Gly Glu Ser Gly Phe Ile Gly
35 40 45
Ser Glu Gly Phe Pro Gly Val Tyr Pro Pro Asn Ser Lys Cys Thr
50 55 60
Trp Lys Ile Thr Val Pro Glu Gly Lys Val Val Val Leu Asn Phe
65 70 75
Arg Phe Ile Asp Leu Glu Ser Asp Asn Leu Cys Arg Tyr Asp Phe
80 85 90
Val Asp Val Tyr Asn Gly His Ala Asn Gln Arg Ile Gly Arg
95 100 105
Phe Cys Gly Thr Phe Arg Pro Gly Ala Leu Val Ser Ser Gly Asn
110 115 120
Lys Met Met Val Gln Met Ile Ser Asp Ala Asn Thr Ala Gly Asn
125 130 135
Gly Phe Met Ala Met Phe Ser Ala Ala Glu Pro Asn Glu Arg Gly
140 145 150
Asp Gln Tyr Cys Gly Gly Leu Leu Asp Arg Pro Ser Gly Ser Phe
155 160 165
Lys Thr Pro Asn Trp Pro Asp Arg Asp Tyr Pro Ala Gly Val Thr
170 175 180
Cys Val Trp His Ile Val Ala Pro Lys Asn Gln Leu Ile Glu Leu
185 190 195
Lys Phe Glu Lys Phe Asp Val Glu Arg Asp Asn Tyr Cys Arg Tyr
200 205 210
Asp Tyr Val Ala Val Phe Asn Gly Gly Glu Val Asn Asp Ala Arg
215 220 225
Arg Ile Gly Lys Tyr Cys Gly Asp Ser Pro Pro Ala Pro Ile Val
230 235 240
Ser Glu Arg Asn Glu Leu Leu Ile Gln Phe Leu Ser Asp Leu Ser

P1618P2C3 sequence listing.txt

245

250

255

Leu Thr Ala Asp Gly Phe Ile Gly His Tyr Ile Phe Arg Pro Lys
260 265 270

Lys Leu Pro Thr Thr Thr Glu Gln Pro Val Thr Thr Thr Phe Pro
275 280 285

Val Thr Thr Gly Leu Lys Pro Thr Val Ala Leu Cys Gln Gln Lys
290 295 300

Cys Arg Arg Thr Gly Thr Leu Glu Gly Asn Tyr Cys Ser Ser Asp
305 310 315

Phe Val Leu Ala Gly Thr Val Ile Thr Thr Ile Thr Arg Asp Gly
320 325 330

Ser Leu His Ala Thr Val Ser Ile Ile Asn Ile Tyr Lys Glu Gly
335 340 345

Asn Leu Ala Ile Gln Gln Ala Gly Lys Asn Met Ser Ala Arg Leu
350 355 360

Thr Val Val Cys Lys Gln Cys Pro Leu Leu Arg Arg Gly Leu Asn
365 370 375

Tyr Ile Ile Met Gly Gln Val Gly Glu Asp Gly Arg Gly Lys Ile
380 385 390

Met Pro Asn Ser Phe Ile Met Met Phe Lys Thr Lys Asn Gln Lys
395 400 405

Leu Leu Asp Ala Leu Lys Asn Lys Gln Cys
410 415

<210> 105

<211> 22

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 105

ccgattcata gacctcgaga gt 22

<210> 106

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 106

gtcaaggagt cctccacaat ac 22

<210> 107

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

P1618P2C3 sequence listing.txt

<223> Synthetic oligonucleotide Probe

<400> 107
gtgtacaatg gccatgccaa tggccagcgc attggccgct tctgt 45
<210> 108
<211> 1838
<212> DNA
<213> Homo Sapien
<400> 108
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cggtcgcttc ttccctctcc gtggcctacg agggtccccca gcctggtaa 100
agatggccccc atggccccc aaggccctag tcccagctgt gctctggggc 150
ctcagcctct tcctcaacct cccaggaccc atctggctcc agccctctcc 200
acctccccag tcttctcccc cgccctcagcc ccattccgtgt catacctgcc 250
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aactttggag gtggaaacac tgccctggag gaagagaatt tgtccaaata 350
caaagacagt gagacccgcc tggtagaggt gctggagggt gtgtgcagca 400
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cctcctgcct tccctgtcct gggggAACAG agaggccctg cggtggctac 600
ggcagtgtg aaggagaagg gacacgaggg ggcagcgggc actgtgactg 650
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ttgaggcaga acgcaacgcc accatctgg tatgttcggc ttgtttggc 750
ccctgtgccc gatgctcagg acctgaggaa tcaaactgtt tgcaatgcaa 800
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gcacagaggg agccaactgtt ggagctgacc aattctgcgtt gaacactgag 900
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gagaacaaggc agtgtaaaa caccgagggc ggttatcgct gcatctgtgc 1100
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agtcagcagg cttcttctca gagatgacag aagacgagtt ggtggctgt 1200
cagcagatgt tctttggcat catcatctgt gcactggcca cgctggctgc 1250
taaggcggac ttgggtttca ccgcattt cattggggct gtggcggcca 1300

P1618P2C3 sequence listing.txt

tgactggcta ctgggtgtca gagcgcagtg accgtgtgct ggagggcttc 1350
atcaaggcca gataatcgcg gccaccaccc ttaggacctc ctccccacca 1400
cgctgcccc agagcttggg ctgccctcct gctggacact caggacagct 1450
tggtttattt ttgagagtgg ggttaagcacc cctacctgcc ttacagagca 1500
gcccaggtac ccaggccccgg gcagacaagg cccctgggggt aaaaagttagc 1550
cctgaaggtg gataccatga gctttcacc tggcggggac tggcaggctt 1600
cacaatgtgt gaatttcaaa agttttcct taatggtggc tgctagagct 1650
ttggcccttg cttaggatta ggtggtcctc acaggggtgg ggccatcaca 1700
gctccctcct gccagctgca tgctgccagt tcctgttctg tgttcaccac 1750
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ggtcttgaa agtaaaaaaaaaaaaaaa 1838

<210> 109

<211> 420

<212> PRT

<213> Homo Sapien

<400> 109

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Gly	Leu	Ser	Leu	Phe	Leu	Asn	Leu	Pro	Gly	Pro	Ile	Trp	Leu	Gln
				20				25					30	
Pro	Ser	Pro	Pro	Pro	Gln	Ser	Ser	Pro	Pro	Pro	Gln	Pro	His	Pro
					35			40				45		
Cys	His	Thr	Cys	Arg	Gly	Leu	Val	Asp	Ser	Phe	Asn	Lys	Gly	Leu
				50				55				60		
Glu	Arg	Thr	Ile	Arg	Asp	Asn	Phe	Gly	Gly	Gly	Asn	Thr	Ala	Trp
				65				70				75		
Glu	Glu	Glu	Asn	Leu	Ser	Lys	Tyr	Lys	Asp	Ser	Glu	Thr	Arg	Leu
				80				85				90		
Val	Glu	Val	Leu	Glu	Gly	Val	Cys	Ser	Lys	Ser	Asp	Phe	Glu	Cys
				95				100				105		
His	Arg	Leu	Leu	Glu	Leu	Ser	Glu	Glu	Leu	Val	Glu	Ser	Trp	Trp
				110				115				120		
Phe	His	Lys	Gln	Gln	Glu	Ala	Pro	Asp	Leu	Phe	Gln	Trp	Leu	Cys
				125				130				135		
Ser	Asp	Ser	Leu	Lys	Leu	Cys	Cys	Pro	Ala	Gly	Thr	Phe	Gly	Pro
				140				145				150		
Ser	Cys	Leu	Pro	Cys	Pro	Gly	Gly	Thr	Glu	Arg	Pro	Cys	Gly	Gly
				155				160				165		
Tyr	Gly	Gln	Cys	Glu	Gly	Glu	Gly	Thr	Arg	Gly	Gly	Ser	Gly	His
				170				175				180		

P1618P2C3 sequence listing.txt

Cys Asp Cys Gln Ala Gly Tyr Gly Gly Glu Ala Cys Gly Gln Cys
185 190 195
Gly Leu Gly Tyr Phe Glu Ala Glu Arg Asn Ala Ser His Leu Val
200 205 210
Cys Ser Ala Cys Phe Gly Pro Cys Ala Arg Cys Ser Gly Pro Glu
215 220 225
Glu Ser Asn Cys Leu Gln Cys Lys Lys Gly Trp Ala Leu His His
230 235 240
Leu Lys Cys Val Asp Ile Asp Glu Cys Gly Thr Glu Gly Ala Asn
245 250 255
Cys Gly Ala Asp Gln Phe Cys Val Asn Thr Glu Gly Ser Tyr Glu
260 265 270
Cys Arg Asp Cys Ala Lys Ala Cys Leu Gly Cys Met Gly Ala Gly
275 280 285
Pro Gly Arg Cys Lys Lys Cys Ser Pro Gly Tyr Gln Gln Val Gly
290 295 300
Ser Lys Cys Leu Asp Val Asp Glu Cys Glu Thr Glu Val Cys Pro
305 310 315
Gly Glu Asn Lys Gln Cys Glu Asn Thr Glu Gly Gly Tyr Arg Cys
320 325 330
Ile Cys Ala Glu Gly Tyr Lys Gln Met Glu Gly Ile Cys Val Lys
335 340 345
Glu Gln Ile Pro Glu Ser Ala Gly Phe Phe Ser Glu Met Thr Glu
350 355 360
Asp Glu Leu Val Val Leu Gln Gln Met Phe Phe Gly Ile Ile Ile
365 370 375
Cys Ala Leu Ala Thr Leu Ala Ala Lys Gly Asp Leu Val Phe Thr
380 385 390
Ala Ile Phe Ile Gly Ala Val Ala Ala Met Thr Gly Tyr Trp Leu
395 400 405
Ser Glu Arg Ser Asp Arg Val Leu Glu Gly Phe Ile Lys Gly Arg
410 415 420

<210> 110

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 110

cctggctatc agcaggtggg ctccaagtgt ctcgatgtgg atgagtgtga 50

<210> 111

<211> 22

<212> DNA

P1618P2C3 sequence listing.txt

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 111

attctgcgtg aacactgagg gc 22

<210> 112

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 112

atctgcttgt agccctcgac ac 22

<210> 113

<211> 1616

<212> DNA

<213> Homo Sapien

<220>

<221> unsure

<222> 1461

<223> unknown base

<400> 113

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tcctccaggg cagcaccatg cagccctgt ggctctgctg ggcactctgg 100

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gggcagcctg ctgcggcagc tgcaagctaa agaggtgccc accctggaca 200

gggcccacat ggaggagctg gtcatcccc cccacgtgag gggccagtac 250

gtggccctgc tgcagcgcag ccacggggac cgctccgcg gaaagagggtt 300

cagccagagc ttccgagagg tggccggcag gttcctggcg ttggaggcca 350

gcacacacct gctgggttgc ggcattggagc agcggctgcc gccaaacagc 400

gagctggtgc aggccgtgct gcccgttcc caggagccgg tccccaaaggc 450

cgcgctgcac aggcacgggc ggctgtcccc ggcgcggcc cggggccggg 500

tgaccgtcga gtggctgcgc gtccgcgacg acggctccaa ccgcacctcc 550

ctcatcgact ccaggctgggt gtccgtccac gagagcggt ggaaggcctt 600

cgcgtgacc gaggccgtga acttctggca gcagctgagc cggccccggc 650

agccgctgct gctacaggtg tcgggtcaga gggagcatct gggcccgctg 700

gcgtccggcg cccacaagct ggtccgcttt gcctcgagg gggcgccagc 750

cgggcttggg gagccccagc tggagctgca caccctggac cttggggact 800

atggagctca gggcgactgt gaccctgaag caccaatgac cgagggcacc 850

P1618P2C3 sequence listing.txt

cgctgctgcc gccaggagat gtacattgac ctgcagggga tgaagtgggc 900
cgagaactgg gtgctggagc ccccgggctt cctggcttat gagtgtgtgg 950
gcacctgccc gcagcccccg gaggccctgg cttcaagtg gccgttctg 1000
gggcctcgac agtgcacatgc ctcggagact gactcgctgc ccatgatcgt 1050
cagcatcaag gagggaggca ggaccaggcc ccaggtggtc agcctgccc 1100
acatgagggt gcagaagtgc agctgtgcct cgatggtgc gctcggtcca 1150
aggaggctcc agccataggc gcctagtgtta gccatcgagg gacttgactt 1200
gtgtgtgttt ctgaagtgtt cgagggtacc aggagagctg gcgatgactg 1250
aactgctgat ggacaaatgc tctgtgctct ctatgtgaccc ctgaatttgc 1300
ttcctctgac aagttacctc acctaatttt tgcttcttag gaatgagaat 1350
cttggccac tggagagccc ttgctcagtt ttctcttattc ttattattca 1400
ctgcactata ttctaaagcac ttacatgtgg agatactgtta acctgagggc 1450
agaaaagccca ntgtgtcatt gtttacttgtt cctgtcactg gatctgggct 1500
aaagtccctcc accaccactc tggacctaag acctggggtt aagtgtgggt 1550
tgtgcacatccc caatccagat aataaagact ttgtaaaaca tgaataaaac 1600
acattttatt ctaaaa 1616

<210> 114

<211> 366

<212> PRT

<213> Homo Sapien

<400> 114

Met	Gln	Pro	Leu	Trp	Leu	Cys	Trp	Ala	Leu	Trp	Val	Leu	Pro	Leu
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Ala	Ser	Pro	Gly	Ala	Ala	Leu	Thr	Gly	Glu	Gln	Leu	Leu	Gly	Ser
	20								25				30	
Leu	Leu	Arg	Gln	Leu	Gln	Leu	Lys	Glu	Val	Pro	Thr	Leu	Asp	Arg
		35						40					45	
Ala	Asp	Met	Glu	Glu	Leu	Val	Ile	Pro	Thr	His	Val	Arg	Ala	Gln
		50						55					60	
Tyr	Val	Ala	Leu	Leu	Gln	Arg	Ser	His	Gly	Asp	Arg	Ser	Arg	Gly
		65						70					75	
Lys	Arg	Phe	Ser	Gln	Ser	Phe	Arg	Glu	Val	Ala	Gly	Arg	Phe	Leu
		80						85					90	
Ala	Leu	Glu	Ala	Ser	Thr	His	Leu	Leu	Val	Phe	Gly	Met	Glu	Gln
		95						100					105	
Arg	Leu	Pro	Pro	Asn	Ser	Glu	Leu	Val	Gln	Ala	Val	Leu	Arg	Leu
		110						115					120	

P1618P2C3 sequence listing.txt

Phe Gln Glu Pro Val Pro Lys Ala Ala Leu His Arg His Gly Arg
125 130 135

Leu Ser Pro Arg Ser Ala Arg Ala Arg Val Thr Val Glu Trp Leu
140 145 150

Arg Val Arg Asp Asp Gly Ser Asn Arg Thr Ser Leu Ile Asp Ser
155 160 165

Arg Leu Val Ser Val His Glu Ser Gly Trp Lys Ala Phe Asp Val
170 175 180

Thr Glu Ala Val Asn Phe Trp Gln Gln Leu Ser Arg Pro Arg Gln
185 190 195

Pro Leu Leu Leu Gln Val Ser Val Gln Arg Glu His Leu Gly Pro
200 205 210

Leu Ala Ser Gly Ala His Lys Leu Val Arg Phe Ala Ser Gln Gly
215 220 225

Ala Pro Ala Gly Leu Gly Glu Pro Gln Leu Glu Leu His Thr Leu
230 235 240

Asp Leu Gly Asp Tyr Gly Ala Gln Gly Asp Cys Asp Pro Glu Ala
245 250 255

Pro Met Thr Glu Gly Thr Arg Cys Cys Arg Gln Glu Met Tyr Ile
260 265 270

Asp Leu Gln Gly Met Lys Trp Ala Glu Asn Trp Val Leu Glu Pro
275 280 285

Pro Gly Phe Leu Ala Tyr Glu Cys Val Gly Thr Cys Arg Gln Pro
290 295 300

Pro Glu Ala Leu Ala Phe Lys Trp Pro Phe Leu Gly Pro Arg Gln
305 310 315

Cys Ile Ala Ser Glu Thr Asp Ser Leu Pro Met Ile Val Ser Ile
320 325 330

Lys Glu Gly Gly Arg Thr Arg Pro Gln Val Val Ser Leu Pro Asn
335 340 345

Met Arg Val Gln Lys Cys Ser Cys Ala Ser Asp Gly Ala Leu Val
350 355 360

Pro Arg Arg Leu Gln Pro
365

<210> 115

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 115

aggactgccat taacttgccct g 21

<210> 116

P1618P2C3 sequence listing.txt

<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 116
ataggagttg aagcagcgct gc 22

<210> 117
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 117
tgtgtggaca tagacgagtg ccgctaccgc tactgccagc accgc 45

<210> 118
<211> 1857
<212> DNA
<213> Homo Sapien

<400> 118
gtctgttccc aggagtccctt cggcggtgt tgtgtcagtgc gcctgatcgc 50
gatggggaca aaggcgcaag tcgagaggaa actgttgtgc ctcttcataat 100
tggcgatcct gttgtgctcc ctggcattgg gcagtgttac agtgcactct 150
tctgaacctg aagtcaaat tcctgagaat aatcctgtga agttgtcctg 200
tgccctactcg ggctttctt ctccccgtgt ggagtggaaat ttgaccaag 250
gagacaccac cagactcgat tgctataata acaagatcac agcttcctat 300
gaggaccggg tgaccttctt gccaactggat atcacctca agtccgtgac 350
acgggaagac actgggacat acacttgtat ggtctctgag gaaggcggca 400
acagctatgg ggaggtaag gtcaagctca tcgtgcttgt gcctccatcc 450
aagcctacag ttaacatccc ctcctctgcc accattggaa accggcagt 500
gctgacatgc tcagaacaag atggttcccc accttctgaa tacacctgg 550
tcaaagatgg gatagtgtat cctacgaatc ccaaaagcac ccgtgccttc 600
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tcccctgtca gcctctgata ctggagaata cagctgtgag gcacggaatg 700
ggtatggac acccatgact tcaaattgtcg tgcgcattgaa agctgtggag 750
cgaaatgtgg gggtcatcggt ggcagccgtc cttgtacccc tgattcttc 800
ggaaatcttgc gttttttggca tctggtttgc ctatagccga ggccactttg 850
acagaacaaa gaaaggact tcgagtaaga aggtgatttgc cagccagcct 900

P1618P2C3 sequence listing.txt

agtccccgaa gtgaaggaga attcaaacag acctcgcat tcctggtgtg 950
agcctggtcg gtcaccgc tatcatctgc atttgccta ctcagggtgct 1000
accggactct ggccctgat gtctgttagtt tcacaggatg ccttatttg 1050
cttctacacc ccacagggcc ccctacttct tcggatgtgt ttttaataat 1100
gtcagctatg tgccccatcc tccttcatgc cctccctccc ttccctacca 1150
ctgctgatgt gcctggaact tttttaaaagt gtttattccc cattttttt 1200
agggatcagg aaggaatcct gggtatgcca ttgacttccc ttctaaatgt 1250
acagcaaaaa tggcgggggt cgccaggaatc tgcactcaac tgcccacctg 1300
gctggcaggg atctttgaat aggtatctt agcttggttc tgggctctt 1350
ccttgtgtac tgacgaccag ggccagctgt tctagagcgg gaatttagagg 1400
ctagagcggc tgaaatggtt gtttggtgat gacactgggg tccttccatc 1450
tctggggccc actctttct gtcttccat gggaaatgcc actgggatcc 1500
ctctgcccctg tcctccctgaa tacaagctga ctgacattga ctgtgtctgt 1550
ggaaaatggg agctctgtt gtggagagca tagtaaattt tcagagaact 1600
tgaagccaaa aggattaaa accgctgctc taaagaaaag aaaactggag 1650
gctgggcgca gtggctcacg cctgtaatcc cagaggctga ggcaggcgg 1700
tcacctgagg tcgggagttc gggatcagcc tgaccaacat ggagaaaccc 1750
tactggaaat acaaagttag ccaggcatgg tggtgcatgc ctgtgtccc 1800
agctgctcag gagcctggca acaagagcaa aactccagct caaaaaaaaa 1850
aaaaaaaa 1857

<210> 119

<211> 299

<212> PRT

<213> Homo Sapien

<400> 119

Met Gly Thr Lys Ala Gln Val Glu Arg Lys Leu Leu Cys Leu Phe
1 5 10 15

Ile Leu Ala Ile Leu Leu Cys Ser Leu Ala Leu Gly Ser Val Thr
20 25 30

Val His Ser Ser Glu Pro Glu Val Arg Ile Pro Glu Asn Asn Pro
35 40 45

Val Lys Leu Ser Cys Ala Tyr Ser Gly Phe Ser Ser Pro Arg Val
50 55 60

Glu Trp Lys Phe Asp Gln Gly Asp Thr Thr Arg Leu Val Cys Tyr
65 70 75

Asn Asn Lys Ile Thr Ala Ser Tyr Glu Asp Arg Val Thr Phe Leu
80 85 90

P1618P2C3 sequence listing.txt

Pro Thr Gly Ile Thr Phe Lys Ser Val Thr Arg Glu Asp Thr Gly
95 100 105
Thr Tyr Thr Cys Met Val Ser Glu Glu Gly Gly Asn Ser Tyr Gly
110 115 120
Glu Val Lys Val Lys Leu Ile Val Leu Val Pro Pro Ser Lys Pro
125 130 135
Thr Val Asn Ile Pro Ser Ser Ala Thr Ile Gly Asn Arg Ala Val
140 145 150
Leu Thr Cys Ser Glu Gln Asp Gly Ser Pro Pro Ser Glu Tyr Thr
155 160 165
Trp Phe Lys Asp Gly Ile Val Met Pro Thr Asn Pro Lys Ser Thr
170 175 180
Arg Ala Phe Ser Asn Ser Ser Tyr Val Leu Asn Pro Thr Thr Gly
185 190 195
Glu Leu Val Phe Asp Pro Leu Ser Ala Ser Asp Thr Gly Glu Tyr
200 205 210
Ser Cys Glu Ala Arg Asn Gly Tyr Gly Thr Pro Met Thr Ser Asn
215 220 225
Ala Val Arg Met Glu Ala Val Glu Arg Asn Val Gly Val Ile Val
230 235 240
Ala Ala Val Leu Val Thr Leu Ile Leu Leu Gly Ile Leu Val Phe
245 250 255
Gly Ile Trp Phe Ala Tyr Ser Arg Gly His Phe Asp Arg Thr Lys
260 265 270
Lys Gly Thr Ser Ser Lys Lys Val Ile Tyr Ser Gln Pro Ser Ala
275 280 285
Arg Ser Glu Gly Glu Phe Lys Gln Thr Ser Ser Phe Leu Val
290 295

<210> 120

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 120

tcgcggagct gtgttctgtt tccc 24

<210> 121

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 121

P1618P2C3 sequence listing.txt

tgatcgcat ggggacaaag gcgcaggctc gagaggaaac tttgtgcct 50
<210> 122
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 122
acacctggtt caaagatgg 20

<210> 123
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 123
taggaagagt tgctgaaggc acgg 24

<210> 124
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 124
ttgccttaact caggtgctac 20

<210> 125
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 125
actcagcagt ggttagaaag 20

<210> 126
<211> 1210
<212> DNA
<213> Homo Sapien

<400> 126
cagcgcgtgg ccggcgccgc tgtgggaca gcatgagcgg cggttggatg 50
gcgcaggttt gagcgtggcg aacaggggct ctgggcctgg cgctgctgct 100
gctgctcggc ctcggactag gcctggaggc cgccgcgagc ccgccttcca 150
ccccgacctc tgcccaggcc gcaggccccca gctcaggctc gtgcccaccc 200
accaagttcc agtgccgcac cagtggctta tgcgtgcccc tcacctggcg 250
ctgcgacagg gacttggact gcagcgatgg cagcgatgag gaggagtgca 300

P1618P2C3 sequence listing.txt

ggattgagcc atgtacccag aaagggaat gcccaccgccc ccctggcctc 350
ccctgcccc gcaccggcgt cagtactgc tctggggaa ctgacaagaa 400
actgcgcac acgcagccgc tggcctgcct agcaggcgag ctccgttgca 450
cgctgagcga tgactgcatt ccactcacgt ggcgctgcga cgccaccca 500
gactgtcccgc actccagcga cgagctcgcc tgtggaacca atgagatcct 550
cccggaaggg gatgccacaa ccatggggcc ccctgtgacc ctggagagt 600
tcacctctct caggaatgcc acaaccatgg ggccccctgt gaccctggag 650
agtgtccccct ctgtcggaa tgccacatcc tcctctgccc gagaccagtc 700
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caaggcttgtt caccgcacc ctcctcctt tgtcctggct ccgagccca 800
gagcgccctcc gcccactggg gttactggtg gccatgaagg agtccctgct 850
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ccgtcaactca gcccctggcg tagccggaca ggaggagagc agtgcgtcg 950
atgggtaccc gggcacacca gcccctcagag acctgagttc ttctggccac 1000
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tcctggaca ctccctatgg agatccgggg agctaggatg gggAACCTGC 1100
cacagccaga actgaggggc tgccccagg cagctccca ggggtagaac 1150
ggccctgtgc ttaagacact ccctgctgcc ccgtctgagg gtggcgatta 1200
aagttgcttc 1210

<210> 127
<211> 282
<212> PRT
<213> Homo Sapien

<400> 127
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Ala Leu Gly Leu Ala Leu Leu Leu Leu Gly Leu Gly Leu Gly
20 25 30
Leu Glu Ala Ala Ala Ser Pro Leu Ser Thr Pro Thr Ser Ala Gln
35 40 45
Ala Ala Gly Pro Ser Ser Gly Ser Cys Pro Pro Thr Lys Phe Gln
50 55 60
Cys Arg Thr Ser Gly Leu Cys Val Pro Leu Thr Trp Arg Cys Asp
65 70 75
Arg Asp Leu Asp Cys Ser Asp Gly Ser Asp Glu Glu Glu Cys Arg
80 85 90

P1618P2C3 sequence listing.txt

Ile	Glu	Pro	Cys	Thr	Gln	Lys	Gly	Gln	Cys	Pro	Pro	Pro	Pro	Gly
95									100					105
Leu	Pro	Cys	Pro	Cys	Thr	Gly	Val	Ser	Asp	Cys	Ser	Gly	Gly	Thr
	110								115					120
Asp	Lys	Lys	Leu	Arg	Asn	Cys	Ser	Arg	Leu	Ala	Cys	Leu	Ala	Gly
	125								130					135
Glu	Leu	Arg	Cys	Thr	Leu	Ser	Asp	Asp	Cys	Ile	Pro	Leu	Thr	Trp
	140								145					150
Arg	Cys	Asp	Gly	His	Pro	Asp	Cys	Pro	Asp	Ser	Ser	Asp	Glu	Leu
	155								160					165
Gly	Cys	Gly	Thr	Asn	Glu	Ile	Leu	Pro	Glu	Gly	Asp	Ala	Thr	Thr
	170								175					180
Met	Gly	Pro	Pro	Val	Thr	Leu	Glu	Ser	Val	Thr	Ser	Leu	Arg	Asn
	185								190					195
Ala	Thr	Thr	Met	Gly	Pro	Pro	Val	Thr	Leu	Glu	Ser	Val	Pro	Ser
	200								205					210
Val	Gly	Asn	Ala	Thr	Ser	Ser	Ser	Ala	Gly	Asp	Gln	Ser	Gly	Ser
	215								220					225
Pro	Thr	Ala	Tyr	Gly	Val	Ile	Ala	Ala	Ala	Ala	Val	Leu	Ser	Ala
	230								235					240
Ser	Leu	Val	Thr	Ala	Thr	Leu	Leu	Leu	Leu	Ser	Trp	Leu	Arg	Ala
	245								250					255
Gln	Glu	Arg	Leu	Arg	Pro	Leu	Gly	Leu	Leu	Val	Ala	Met	Lys	Glu
	260								265					270
Ser	Leu	Leu	Leu	Ser	Glu	Gln	Lys	Thr	Ser	Leu	Pro			
	275								280					

<210> 128

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 128

aagttccagt gccgcaccag tggc 24

<210> 129

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 129

ttggttccac agccgagctc gtcg 24

<210> 130

<211> 50

P1618P2C3 sequence listing.txt

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 130

gaggaggagt gcaggattga gccatgtacc cagaaagggc aatgccacc 50

<210> 131

<211> 1843

<212> DNA

<213> Homo Sapien

<220>

<221> unsure

<222> 1837

<223> unknown base

<400> 131

cccacgcgtc cggctcgct cgctcgca gcggcggcag cagaggtcgc 50

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agctgcgtgc atgagaccca cagactctt caagctggat gccctctgtg 150

gatgaaagat gtatcatgga atgaacccga gcaatggaga tggatttcta 200

gagcagcagc agcagcagca gcaacctcag tccccccaga gactcttggc 250

cgtgatcctg tggtttcagc tggcgctgtg ctccggccct gcacagctca 300

cgggcggggtt cgtgacccctt caagtgtgtg ctgaccccgag cattcccgag 350

aatggcttca ggaccccccag cggagggggtt ttctttgaag gctctgttagc 400

ccgatttcac tgccaagacg gattcaagct gaagggcgct acaaagagac 450

tgtgtttgaa gcatttaat ggaacccctag gctggatccc aagtgataat 500

tccatctgtg tgcaagaaga ttgccgtatc cctcaaatcg aagatgctga 550

gattcataac aagacatata gacatggaga gaagctaattc atcacttgtc 600

atgaaggatt caagatccgg taccccgacc tacacaatat ggtttcatta 650

tgtcgcgatg atgaaacgtg gaataatctg cccatctgtc aaggctgcct 700

gagacctcta gcctcttcta atggctatgt aaacatctct gagctccaga 750

cctccttccc ggtggggact gtgatctcct atcgctgtt tcccgattt 800

aaacttgatg ggtctcgta ttctgagtgc ttacaaaacc ttatctggtc 850

gtccagccca ccccggtgcc ttgctctgga agcccaagtc tgtccactac 900

ctccaaatggt gagtcaacggc gatttcgtct gccacccgcg gccttgtgag 950

cgctacaacc acggaactgt ggtggagttt tactgcgtac ctggctacag 1000

cctcaccaggc gactacaagt acatcacctg ccagtatgga gagtggttcc 1050

cttcttatca agtctactgc atcaaatcag agcaaacgtg gcccagcacc 1100

P1618P2C3 sequence listing.txt

catgagaccc tcctgaccac gtggaagatt gtggcgttca cgccaaccag 1150
tgtgctgctg gtgctgctgc tcgtcatcct ggccaggatg ttccagacca 1200
agttcaaggc ccacttccc cccagggggc ctccccggag ttccagcagt 1250
gaccctgact ttgtggtggt agacggcgtg cccgtcatgc tcccgtccta 1300
tgacgaagct gtgagtgccg gcttgagtgc cttaggcccc gggtacatgg 1350
cctctgtggg ccaggcgtgc cccttaccccg tggacgacca gagccccca 1400
gcatacccg gctcagggga cacggacaca ggcccagggg agtcagaaac 1450
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ctcccagggtg ccaagagagc acccaccctg cttcggacaa ccctgacata 1550
attgccagca cggcagagga ggtggcatcc accagccag gcatccatca 1600
tgcccactgg gtgttgtcc taagaaactg attgattaaa aaatttccca 1650
aagtgtcctg aagtgtctct tcaaatacat gttgatctgt ggagttgatt 1700
ccttccttc tcttggttt agacaaatgt aaacaaagct ctgatcctta 1750
aaattgctat gctgatagag tggtgagggc tggaagcttg atcaagtcc 1800
gtttcttctt gacacagact gattaaaaat taaaagnaaa aaa 1843

<210> 132

<211> 490

<212> PRT

<213> Homo Sapien

<400> 132

Met	Tyr	His	Gly	Met	Asn	Pro	Ser	Asn	Gly	Asp	Gly	Phe	Leu	Glu
1				5				10				15		
Gln	Gln	Gln	Gln	Gln	Gln	Pro	Gln	Ser	Pro	Gln	Arg	Leu	Leu	
						20		25				30		
Ala	Val	Ile	Leu	Trp	Phe	Gln	Leu	Ala	Leu	Cys	Phe	Gly	Pro	Ala
				35				40				45		
Gln	Leu	Thr	Gly	Gly	Phe	Asp	Asp	Leu	Gln	Val	Cys	Ala	Asp	Pro
				50				55				60		
Gly	Ile	Pro	Glu	Asn	Gly	Phe	Arg	Thr	Pro	Ser	Gly	Gly	Val	Phe
				65				70				75		
Phe	Glu	Gly	Ser	Val	Ala	Arg	Phe	His	Cys	Gln	Asp	Gly	Phe	Lys
				80				85				90		
Leu	Lys	Gly	Ala	Thr	Lys	Arg	Leu	Cys	Leu	Lys	His	Phe	Asn	Gly
				95				100				105		
Thr	Leu	Gly	Trp	Ile	Pro	Ser	Asp	Asn	Ser	Ile	Cys	Val	Gln	Glu
				110				115				120		
Asp	Cys	Arg	Ile	Pro	Gln	Ile	Glu	Asp	Ala	Glu	Ile	His	Asn	Lys
				125				130				135		

P1618P2C3 sequence listing.txt

Thr Tyr Arg His Gly Glu Lys Leu Ile Ile Thr Cys His Glu Gly
140 145 150
Phe Lys Ile Arg Tyr Pro Asp Leu His Asn Met Val Ser Leu Cys
155 160 165
Arg Asp Asp Gly Thr Trp Asn Asn Leu Pro Ile Cys Gln Gly Cys
170 175 180
Leu Arg Pro Leu Ala Ser Ser Asn Gly Tyr Val Asn Ile Ser Glu
185 190 195
Leu Gln Thr Ser Phe Pro Val Gly Thr Val Ile Ser Tyr Arg Cys
200 205 210
Phe Pro Gly Phe Lys Leu Asp Gly Ser Ala Tyr Leu Glu Cys Leu
215 220 225
Gln Asn Leu Ile Trp Ser Ser Ser Pro Pro Arg Cys Leu Ala Leu
230 235 240
Glu Ala Gln Val Cys Pro Leu Pro Pro Met Val Ser His Gly Asp
245 250 255
Phe Val Cys His Pro Arg Pro Cys Glu Arg Tyr Asn His Gly Thr
260 265 270
Val Val Glu Phe Tyr Cys Asp Pro Gly Tyr Ser Leu Thr Ser Asp
275 280 285
Tyr Lys Tyr Ile Thr Cys Gln Tyr Gly Glu Trp Phe Pro Ser Tyr
290 295 300
Gln Val Tyr Cys Ile Lys Ser Glu Gln Thr Trp Pro Ser Thr His
305 310 315
Glu Thr Leu Leu Thr Thr Trp Lys Ile Val Ala Phe Thr Ala Thr
320 325 330
Ser Val Leu Leu Val Leu Leu Leu Val Ile Leu Ala Arg Met Phe
335 340 345
Gln Thr Lys Phe Lys Ala His Phe Pro Pro Arg Gly Pro Pro Arg
350 355 360
Ser Ser Ser Ser Asp Pro Asp Phe Val Val Val Asp Gly Val Pro
365 370 375
Val Met Leu Pro Ser Tyr Asp Glu Ala Val Ser Gly Gly Leu Ser
380 385 390
Ala Leu Gly Pro Gly Tyr Met Ala Ser Val Gly Gln Gly Cys Pro
395 400 405
Leu Pro Val Asp Asp Gln Ser Pro Pro Ala Tyr Pro Gly Ser Gly
410 415 420
Asp Thr Asp Thr Gly Pro Gly Glu Ser Glu Thr Cys Asp Ser Val
425 430 435
Ser Gly Ser Ser Glu Leu Leu Gln Ser Leu Tyr Ser Pro Pro Arg
440 445 450

P1618P2C3 sequence listing.txt

Cys Gln Glu Ser Thr His Pro Ala Ser Asp Asn Pro Asp Ile Ile
455 460 465

Ala Ser Thr Ala Glu Glu Val Ala Ser Thr Ser Pro Gly Ile His
470 475 480

His Ala His Trp Val Leu Phe Leu Arg Asn
485 490

<210> 133

<211> 23

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide Probe

<400> 133

atctcctatac gctgcttcc cg 23

<210> 134

<211> 23

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide Probe

<400> 134

agccaggatc gcagtaaaac tcc 23

<210> 135

<211> 50

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide Probe

<400> 135

atttaaactt gatgggtctg cgtatcttga gtgcttacaa aaccttatct 50

<210> 136

<211> 1815

<212> DNA

<213> Homo Sapien

<400> 136

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gtggcctaga gatgctgctg ccgcgggtgc agttgtcgcg cacgcctctg 100

cccgccagcc cgctccaccg ccgttagcgcc cgagtgtcgg ggggcgcacc 150

cgagtccggc catgaggccg ggaaccgcgc tacaggccgt gctgctggcc 200

gtgctgctgg tggggctgacg ggccgcgacg ggtcgcctgc tgagtgcctc 250

ggatttggac ctcagaggag ggcagccagt ctgccgggaa gggacacaga 300

ggccttgta taaagtcatc tacttccatg atacttctcg aagactgaac 350

P1618P2C3 sequence listing.txt

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catcgagtct gaagatgaac agaaaactgat agaaaagttc attgaaaacc 450
tcttgccatc ttaggtgac ttctggattt ggctcaggag gcgtgaggag 500
aaacaaagca atagcacagc ctgccaggac cttagtgc ttggactgatgg 550
cagcatatca caattnatca actggatgtt ggttgcggca 600
gcgggtctg cgtggatcatg taccatcagc catcgccacc cgctggatc 650
ggaggcccct acatgttcca gtggatgtt gaccggtgca acatgaagaa 700
caatttcatt tgcaaatatt ctgtatgagaa accagcagtt cttcttagag 750
aagctgaagg tgagaaaca gagctgacaa cacctgtact tccagaagaa 800
acacaggaag aagatgcca aaaaacattt aaagaaagta gagaagctgc 850
cttgaatctg gcctacatcc taatccccag cattccctt ctccctcc 900
ttgtggtcac cacagttgtt tttttttt ggatctgttag aaaaagaaaa 950
cgggagcagc cagaccctag cacaagaag caacacacca tctggccctc 1000
tcctcaccag gggaaacagcc cgacccctaga ggtctacaat gtcataagaa 1050
aacaaagcga agctgactta gctgagaccc ggccagacct gaagaatatt 1100
tcattccgag tgtgttcggg agaagccact cccgatgaca tgtcttgtga 1150
ctatgacaac atggctgtga acccatcaga aagtgggttt gtgactctgg 1200
tgagcgtgga gagtggattt gtgaccaatg acatttatga gttctcccc 1250
gaccaaattgg ggaggagtaa ggagtctgga tgggtggaaa atgaaatata 1300
tggttattag gacatataaa aaactgaaac tgacaacaat gggaaaagaaaa 1350
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atgaacaagc tttagatcagg tcctgtggat gagcatgtgg tccccacgac 1450
ctccctgttgg acccccacgt ttggctgta tcctttatcc cagccagtca 1500
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gagctttacc tggcagtgtat aaagatgggc tgtggagctt ggaaaaccac 1650
ctctgttttcc ttgtcttat acagcagcac atattatcat acagacagaa 1700
aatccagaat ctttcaaag cccacatatg gtagcacagg ttggcctgtg 1750
catcgccaaat tctcatatct gttttttca aagaataaaaa tcaaataaaag 1800
agcaggaaaa aaaaa 1815

<210> 137
<211> 382
<212> PRT

P1618P2C3 sequence listing.txt

<213> Homo Sapien

<400> 137

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Leu	Val	Gly	Leu	Arg	Ala	Ala	Thr	Gly	Arg	Leu	Leu	Ser	Ala	Ser
	20						25							30
Asp	Leu	Asp	Leu	Arg	Gly	Gly	Gln	Pro	Val	Cys	Arg	Gly	Gly	Thr
				35				40						45
Gln	Arg	Pro	Cys	Tyr	Lys	Val	Ile	Tyr	Phe	His	Asp	Thr	Ser	Arg
					50			55						60
Arg	Leu	Asn	Phe	Glu	Glu	Ala	Lys	Glu	Ala	Cys	Arg	Arg	Asp	Gly
				65			70							75
Gly	Gln	Leu	Val	Ser	Ile	Glu	Ser	Glu	Asp	Glu	Gln	Lys	Leu	Ile
				80			85							90
Glu	Lys	Phe	Ile	Glu	Asn	Leu	Leu	Pro	Ser	Asp	Gly	Asp	Phe	Trp
			95					100						105
Ile	Gly	Leu	Arg	Arg	Arg	Glu	Glu	Lys	Gln	Ser	Asn	Ser	Thr	Ala
			110					115						120
Cys	Gln	Asp	Leu	Tyr	Ala	Trp	Thr	Asp	Gly	Ser	Ile	Ser	Gln	Phe
			125					130						135
Arg	Asn	Trp	Tyr	Val	Asp	Glu	Pro	Ser	Cys	Gly	Ser	Glu	Val	Cys
				140				145						150
Val	Val	Met	Tyr	His	Gln	Pro	Ser	Ala	Pro	Ala	Gly	Ile	Gly	
				155				160						165
Pro	Tyr	Met	Phe	Gln	Trp	Asn	Asp	Asp	Arg	Cys	Asn	Met	Lys	Asn
			170					175						180
Asn	Phe	Ile	Cys	Lys	Tyr	Ser	Asp	Glu	Lys	Pro	Ala	Val	Pro	Ser
				185					190					195
Arg	Glu	Ala	Glu	Gly	Glu	Glu	Thr	Glu	Leu	Thr	Thr	Pro	Val	Leu
				200				205						210
Pro	Glu	Glu	Thr	Gln	Glu	Glu	Asp	Ala	Lys	Lys	Thr	Phe	Lys	Glu
			215					220						225
Ser	Arg	Glu	Ala	Ala	Leu	Asn	Leu	Ala	Tyr	Ile	Leu	Ile	Pro	Ser
				230				235						240
Ile	Pro	Leu	Leu	Leu	Leu	Leu	Val	Val	Thr	Thr	Val	Val	Cys	Trp
				245				250						255
Val	Trp	Ile	Cys	Arg	Lys	Arg	Lys	Arg	Glu	Gln	Pro	Asp	Pro	Ser
				260				265						270
Thr	Lys	Lys	Gln	His	Thr	Ile	Trp	Pro	Ser	Pro	His	Gln	Gly	Asn
			275					280						285
Ser	Pro	Asp	Leu	Glu	Val	Tyr	Asn	Val	Ile	Arg	Lys	Gln	Ser	Glu
			290					295						300

P1618P2C3 sequence listing.txt
Ala Asp Leu Ala Glu Thr Arg Pro Asp Leu Lys Asn Ile Ser Phe
305 310 315
Arg Val Cys Ser Gly Glu Ala Thr Pro Asp Asp Met Ser Cys Asp
320 325 330
Tyr Asp Asn Met Ala Val Asn Pro Ser Glu Ser Gly Phe Val Thr
335 340 345
Leu Val Ser Val Glu Ser Gly Phe Val Thr Asn Asp Ile Tyr Glu
350 355 360
Phe Ser Pro Asp Gln Met Gly Arg Ser Lys Glu Ser Gly Trp Val
365 370 375
Glu Asn Glu Ile Tyr Gly Tyr
380

<210> 138

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 138

gttcattgaa aacctcttgc catctgatgg tgacttctgg attgggctca 50

<210> 139

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 139

aagccaaaga agcctgcagg aggg 24

<210> 140

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 140

cagtccaagc ataaagggtcc tggc 24

<210> 141

<211> 1514

<212> DNA

<213> Homo Sapien

<400> 141

gggggtctccc tcagggccgg gaggcacagc ggtccctgct tgctgaaggg 50

ctggatgtac gcatccgcag gttcccgccg acttgggggc gcccgcgtgag 100

ccccggcgcc cgcaagaagac ttgtgtttgc ctccctgcagc ctcaaccgg 150

P1618P2C3 sequence listing.txt

agggcagcga gggcctacca ccatgatcac tggtgttgc agcatgcgt 200
tgtggacccc agtggcgtc ctgacctcg cttgcgtactg cctgcaccag 250
cggcggtgg ccctggccga gctgcaggag gccgatggcc agtgtccgg 300
cgaccgcagc ctgctgaagt taaaaatggt gcaggtcgtg tttcgacacg 350
gggctcgag tcctctcaag ccgcctccgc tggaggagca ggttagagtgg 400
aacccccagc tattagaggt cccaccccaa actcagttt attacacagt 450
caccaatcta gctggtggtc cgaaaccata ttctccttac gactctcaat 500
accatgagac caccctgaag gggggcatgt ttgctggca gctgaccaag 550
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tgtgaaagac attcccttac ttccaccaac cttcaaccca caggaggct 650
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gcctgaggca gagaaccaga ggccggaggc agactgcctc ttacagcca 850
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gaccctgggg attttgacc acaaatggcc accgttgct gttgacctga 1250
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tattaccacg ggaaggagca ggtgccgaga ggttgccctg atggctctg 1350
cccgctggac atgttcttga atgcccattgtc agtttatacc ttaagcccag 1400
aaaaatacca tgcactctgc tctcaaactc aggtgatggaa agttggaaat 1450
gaagagtaac tgattataa aagcaggatg tggatggaaaat 1500
gccttataac aatg 1514

<210> 142

<211> 428

<212> PRT

<213> Homo Sapien

<400> 142

Met Ile Thr Gly Val Phe Ser Met Arg Leu Trp Thr Pro Val Gly

P1618P2C3 sequence listing.txt

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				20				25					30	
Leu	Ala	Glu	Leu	Gln	Glu	Ala	Asp	Gly	Gln	Cys	Pro	Val	Asp	Arg
				35				40				45		
Ser	Leu	Leu	Lys	Leu	Lys	Met	Val	Gln	Val	Val	Phe	Arg	His	Gly
				50				55				60		
Ala	Arg	Ser	Pro	Leu	Lys	Pro	Leu	Pro	Leu	Glu	Glu	Gln	Val	Glu
				65				70				75		
Trp	Asn	Pro	Gln	Leu	Leu	Glu	Val	Pro	Pro	Gln	Thr	Gln	Phe	Asp
				80				85				90		
Tyr	Thr	Val	Thr	Asn	Leu	Ala	Gly	Gly	Pro	Lys	Pro	Tyr	Ser	Pro
				95				100				105		
Tyr	Asp	Ser	Gln	Tyr	His	Glu	Thr	Thr	Leu	Lys	Gly	Gly	Met	Phe
				110				115				120		
Ala	Gly	Gln	Leu	Thr	Lys	Val	Gly	Met	Gln	Gln	Met	Phe	Ala	Leu
				125				130				135		
Gly	Glu	Arg	Leu	Arg	Lys	Asn	Tyr	Val	Glu	Asp	Ile	Pro	Phe	Leu
				140				145				150		
Ser	Pro	Thr	Phe	Asn	Pro	Gln	Glu	Val	Phe	Ile	Arg	Ser	Thr	Asn
				155				160				165		
Ile	Phe	Arg	Asn	Leu	Glu	Ser	Thr	Arg	Cys	Leu	Leu	Ala	Gly	Leu
				170				175				180		
Phe	Gln	Cys	Gln	Lys	Glu	Gly	Pro	Ile	Ile	Ile	His	Thr	Asp	Glu
				185				190				195		
Ala	Asp	Ser	Glu	Val	Leu	Tyr	Pro	Asn	Tyr	Gln	Ser	Cys	Trp	Ser
				200				205				210		
Leu	Arg	Gln	Arg	Thr	Arg	Gly	Arg	Arg	Gln	Thr	Ala	Ser	Leu	Gln
				215				220				225		
Pro	Gly	Ile	Ser	Glu	Asp	Leu	Lys	Lys	Val	Lys	Asp	Arg	Met	Gly
				230				235				240		
Ile	Asp	Ser	Ser	Asp	Lys	Val	Asp	Phe	Phe	Ile	Leu	Leu	Asp	Asn
				245				250				255		
Val	Ala	Ala	Glu	Gln	Ala	His	Asn	Leu	Pro	Ser	Cys	Pro	Met	Leu
				260				265				270		
Lys	Arg	Phe	Ala	Arg	Met	Ile	Glu	Gln	Arg	Ala	Val	Asp	Thr	Ser
				275				280				285		
Leu	Tyr	Ile	Leu	Pro	Lys	Glu	Asp	Arg	Glu	Ser	Leu	Gln	Met	Ala
				290				295				300		
Val	Gly	Pro	Phe	Leu	His	Ile	Leu	Glu	Ser	Asn	Leu	Leu	Lys	Ala
				305				310				315		
Met	Asp	Ser	Ala	Thr	Ala	Pro	Asp	Lys	Ile	Arg	Lys	Leu	Tyr	Leu

320 P1618P2C3 sequence listing.txt
325 330

Tyr Ala Ala His Asp Val Thr Phe Ile Pro Leu Leu Met Thr Leu
335 340 345

Gly Ile Phe Asp His Lys Trp Pro Pro Phe Ala Val Asp Leu Thr
350 355 360

Met Glu Leu Tyr Gln His Leu Glu Ser Lys Glu Trp Phe Val Gln
365 370 375

Leu Tyr Tyr His Gly Lys Glu Gln Val Pro Arg Gly Cys Pro Asp
380 385 390

Gly Leu Cys Pro Leu Asp Met Phe Leu Asn Ala Met Ser Val Tyr
395 400 405

Thr Leu Ser Pro Glu Lys Tyr His Ala Leu Cys Ser Gln Thr Gln
410 415 420

Val Met Glu Val Gly Asn Glu Glu
425

<210> 143

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Probe

<400> 143

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<210> 144

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 144

gcagctctat taccacggga agga 24

<210> 145

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 145

tccttcccgt ggtaatagag ctgc 24

<210> 146

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

P1618P2C3 sequence listing.txt

<400> 146
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<210> 147
<211> 1686
<212> DNA
<213> Homo Sapien
<400> 147
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gctctgctat tctccttgcatt ccttgcatt tgccaccagac ctggattcct 150
agcgtctcca tctggagtgc ggctggtggg gggcctccac cgctgtgaag 200
ggcggttggaa ggtggAACAG aaaggccagt ggggcaccgt gtgtgatgac 250
ggctgggaca ttaaggacgt ggctgtgtt tgccgggacg tggctgtgg 300
agctgccagc ggaaccccta gtggtatTTT gtatgagcca ccagcagaaa 350
aagagcaaaa ggtcctcatc caatcagtca gttgcacagg aacagaagat 400
acattggctc agtgtgagca agaagaagtt tatgattgtt cacatgatga 450
agatgctggg gcatcgtgtg agaacccaga gagctcttc tccccagtcc 500
cagagggtgt caggctggct gacggccctg ggcattgcaa gggacgcgtg 550
gaagtgaagc accagaacca gtggtatACC gtgtgccaga caggctggag 600
cctccgggccc gcaaagggtgg tgtgccggca gctggatgt gggagggctg 650
tactgactca aaaacgctgc aacaagcatg cctatggccg aaaacccatc 700
tggctgagcc agatgtcatg ctcaggacga gaagcaaccc ttcaggattt 750
cccttctggg ccttggggaa agaacacctg caaccatgtt gaagacacgt 800
gggtcgaatg tgaagatccc ttgacttga gacttaggg aggagacaac 850
ctctgctctg ggcgacttggaa ggtgctgcac aagggcgtat gggctctgt 900
ctgtgatgac aactggggag aaaaggagga ccaggtggta tgcaagcaac 950
tgggctgtgg gaagtccctc tctccctcct tcagagaccg gaaatgctat 1000
ggccctgggg ttggccgcattt ctggctggat aatgttcgtt gctcaggggaa 1050
ggagcagtcc ctggagcagt gccagcacag attttggggg tttcacgact 1100
gcacccacca ggaagatgtg gctgtcatct gctcagtgtt ggtggccatc 1150
atctaattctg ttgacttgcctt gaatagaaga aaaacacaga agaagggagc 1200
atttactgtc tacatgactg catggatgtt acactgatct tcttctgccc 1250
ttggacttggg acttataactt ggtgcccctg attctcaggc cttcagagtt 1300
ggatcagaac ttacaacatc aggtcttagtt ctcaggccat cagacatagt 1350

P1618P2C3 sequence listing.txt

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ttcccgct ccataattgt gtgtatcaac tacttaaata catttcaca 1450
cacacacaca cacacacaca cacacacaca cacacataca ccatttgc 1500
tgtttctctg aagaactctg aaaaaataca gatttggta ctgaaagaga 1550
ttcttagagga acggaatttt aaggataaat tttctgaatt ggatatgggg 1600
tttctgaaat tggctctata atctaattag atataaaatt ctggtaactt 1650
tatattacaat aataaaagata gcactatgtg ttcaaa 1686

<210> 148

<211> 347

<212> PRT

<213> Homo Sapien

<400> 148

Met	Ala	Leu	Leu	Phe	Ser	Leu	Ile	Leu	Ala	Ile	Cys	Thr	Arg	Pro
1														15
Gly	Phe	Leu	Ala	Ser	Pro	Ser	Gly	Val	Arg	Leu	Val	Gly	Gly	Leu
														30
His	Arg	Cys	Glu	Gly	Arg	Val	Glu	Val	Glu	Gln	Lys	Gly	Gln	Trp
														45
Gly	Thr	Val	Cys	Asp	Asp	Gly	Trp	Asp	Ile	Lys	Asp	Val	Ala	Val
														60
Leu	Cys	Arg	Glu	Leu	Gly	Cys	Gly	Ala	Ala	Ser	Gly	Thr	Pro	Ser
														75
Gly	Ile	Leu	Tyr	Glu	Pro	Pro	Ala	Glu	Lys	Glu	Gln	Lys	Val	Leu
														90
Ile	Gln	Ser	Val	Ser	Cys	Thr	Gly	Thr	Glu	Asp	Thr	Leu	Ala	Gln
														105
Cys	Glu	Gln	Glu	Glu	Val	Tyr	Asp	Cys	Ser	His	Asp	Glu	Asp	Ala
														120
Gly	Ala	Ser	Cys	Glu	Asn	Pro	Glu	Ser	Ser	Phe	Ser	Pro	Val	Pro
														135
Glu	Gly	Val	Arg	Leu	Ala	Asp	Gly	Pro	Gly	His	Cys	Lys	Gly	Arg
														150
Val	Glu	Val	Lys	His	Gln	Asn	Gln	Trp	Tyr	Thr	Val	Cys	Gln	Thr
														165
Gly	Trp	Ser	Leu	Arg	Ala	Ala	Lys	Val	Val	Cys	Arg	Gln	Leu	Gly
														180
Cys	Gly	Arg	Ala	Val	Leu	Thr	Gln	Lys	Arg	Cys	Asn	Lys	His	Ala
														195
Tyr	Gly	Arg	Lys	Pro	Ile	Trp	Leu	Ser	Gln	Met	Ser	Cys	Ser	Gly
														210
200														

P1618P2C3 sequence listing.txt

Arg	Glu	Ala	Thr	Leu	Gln	Asp	Cys	Pro	Ser	Gly	Pro	Trp	Gly	Lys
215									220					225

Ash	Thr	Cys	Asn	His	Asp	Glu	Asp	Thr	Trp	Val	Glu	Cys	Glu	Asp
230								235						240

Pro	Phe	Asp	Leu	Arg	Leu	Val	Gly	Gly	Asp	Asn	Leu	Cys	Ser	Gly
245								250						255

Arg	Leu	Glu	Val	Leu	His	Lys	Gly	Val	Trp	Gly	Ser	Val	Cys	Asp
260								265						270

Asp	Asn	Trp	Gly	Glu	Lys	Glu	Asp	Gln	Val	Val	Cys	Lys	Gln	Leu
275								280						285

Gly	Cys	Gly	Lys	Ser	Leu	Ser	Pro	Ser	Phe	Arg	Asp	Arg	Lys	Cys
290								295						300

Tyr	Gly	Pro	Gly	Val	Gly	Arg	Ile	Trp	Leu	Asp	Asn	Val	Arg	Cys
305								310						315

Ser	Gly	Glu	Glu	Gln	Ser	Leu	Glu	Gln	Cys	Gln	His	Arg	Phe	Trp
320								325						330

Gly	Phe	His	Asp	Cys	Thr	His	Gln	Glu	Asp	Val	Ala	Val	Ile	Cys
335								340						345

Ser Val

<210> 149

<211> 24

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 149

ttcagctcat caccttacc tgcc 24

<210> 150

<211> 24

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 150

ggctcataca aaataccact aggg 24

<210> 151

<211> 50

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 151

gggcctccac cgctgtgaag ggcgggtgga ggtggAACAG aaaggccagt 50

P1618P2C3 sequence listing.txt

<210> 152
<211> 1427
<212> DNA
<213> Homo Sapien

<400> 152
actgcactcg gttctatcga ttgaattccc cggggatcct ctagagatcc 50
ctcgacctcg acccacgcgt ccgcggacgc gtgggcggac gcgtgggccc 100
gctaccagga agagtctgcc gaaggtaag gccatggact tcatacacctc 150
cacagccatc ctgcacctgc tttcggctg cctggcgtc ttccgcctct 200
tccggctgct gcagtgggtg cgccggaaagg cctacctgcg gaatgctgtg 250
gtggtgatca caggcgccac ctcaggctg ggcaaagaat gtgaaaagt 300
cttctatgct gcgggtgcta aactggtgct ctgtggccgg aatggtgggg 350
ccctagaaga gctcatcaga gaacttaccg cttctcatgc caccaaggtg 400
cagacacaca agccttactt ggtgaccttc gacctcacag actctggggc 450
catagttgca gcagcagctg agatcctgca gtgcttggc tatgtcgaca 500
tacttgtcaa caatgctggg atcagctacc gtggtaaccat catggacacc 550
acagtggatg tggacaagag ggtcatggag acaaaactact ttggcccagt 600
tgctctaacg aaagcactcc tgccctccat gatcaagagg aggcaaggcc 650
acattgtcgc catcagcagc atccaggca agatgagcat tcctttcga 700
tcagcatatg cagcctccaa gcacgcacc caggcttct ttgactgtct 750
gcgtgccgag atgaaacagt atgaaattga ggtgaccgtc atcagccccg 800
gctacatcca caccacacc tctgtaaatg ccatcaccgc ggatggatct 850
aggtatggag ttatggacac caccacagcc cagggccgaa gccctgtgga 900
ggtggcccag gatgttcttgc tctgtgtggg gaagaagaag aaagatgtga 950
tcctggctga cttactgcct tccttgctg tttatctcg aactctggct 1000
cctggctct tcctcagcct catggcctcc agggccagaa aagagcggaa 1050
atccaagaac tccttagtact ctgaccagcc agggccaggg cagagaagca 1100
gcactcttag gcttgcttac tctacaaggg acagttgcat ttgttgagac 1150
tttaatggag atttgctca caagtggaa agactgaaga aacacatctc 1200
gtgcagatct gctggcagag gacaatcaa aacgacaaca agttcttcc 1250
cagggtgagg gaaaaactt aaggaataaa tatggagctg gggtttaaca 1300
ctaaaaacta gaaataaaca tctcaaacag taaaaaaaaaaa aaaaaaggc 1350
ggccgcgact ctagagtcga cctgcagaag cttggccgcc atggcccaac 1400
ttgtttattt cagcttataa tggttac 1427

P1618P2C3 sequence listing.txt

<210> 153
<211> 310
<212> PRT
<213> Homo Sapien

<400> 153
Met Asp Phe Ile Thr Ser Thr Ala Ile Leu Pro Leu Leu Phe Gly
1 5 10 15
Cys Leu Gly Val Phe Gly Leu Phe Arg Leu Leu Gln Trp Val Arg
20 25 30
Gly Lys Ala Tyr Leu Arg Asn Ala Val Val Val Ile Thr Gly Ala
35 40 45
Thr Ser Gly Leu Gly Lys Glu Cys Ala Lys Val Phe Tyr Ala Ala
50 55 60
Gly Ala Lys Leu Val Leu Cys Gly Arg Asn Gly Gly Ala Leu Glu
65 70 75
Glu Leu Ile Arg Glu Leu Thr Ala Ser His Ala Thr Lys Val Gln
80 85 90
Thr His Lys Pro Tyr Leu Val Thr Phe Asp Leu Thr Asp Ser Gly
95 100 105
Ala Ile Val Ala Ala Ala Glu Ile Leu Gln Cys Phe Gly Tyr
110 115 120
Val Asp Ile Leu Val Asn Asn Ala Gly Ile Ser Tyr Arg Gly Thr
125 130 135
Ile Met Asp Thr Thr Val Asp Val Asp Lys Arg Val Met Glu Thr
140 145 150
Asn Tyr Phe Gly Pro Val Ala Leu Thr Lys Ala Leu Leu Pro Ser
155 160 165
Met Ile Lys Arg Arg Gln Gly His Ile Val Ala Ile Ser Ser Ile
170 175 180
Gln Gly Lys Met Ser Ile Pro Phe Arg Ser Ala Tyr Ala Ala Ser
185 190 195
Lys His Ala Thr Gln Ala Phe Phe Asp Cys Leu Arg Ala Glu Met
200 205 210
Glu Gln Tyr Glu Ile Glu Val Thr Val Ile Ser Pro Gly Tyr Ile
215 220 225
His Thr Asn Leu Ser Val Asn Ala Ile Thr Ala Asp Gly Ser Arg
230 235 240
Tyr Gly Val Met Asp Thr Thr Thr Ala Gln Gly Arg Ser Pro Val
245 250 255
Glu Val Ala Gln Asp Val Leu Ala Ala Val Gly Lys Lys Lys Lys
260 265 270
Asp Val Ile Leu Ala Asp Leu Leu Pro Ser Leu Ala Val Tyr Leu
275 280 285

P1618P2C3 sequence listing.txt

Arg Thr Leu Ala Pro Gly Leu Phe Phe Ser Leu Met Ala Ser Arg
290 295 300
Ala Arg Lys Glu Arg Lys Ser Lys Asn Ser
305 310

<210> 154
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 154
ggtgctaaac tggtgctctg tggc 24

<210> 155
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 155
cagggcaaga tgagcattcc 20

<210> 156
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 156
tcatactgtt ccatctcgcc acgc 24

<210> 157
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 157
aatgggtgggg ccctagaaga gctcatcaga gaactcaccc cttctcatgc 50

<210> 158
<211> 1771
<212> DNA
<213> Homo Sapien

<400> 158
cccacgcgtc cgctgggtt agatcgagca accctctaaa agcagtttag 50
agtggtaaaa aaaaaaaaaa acacaccaaa cgctcgcc cacaagg 100
atgaaatttc ttctggacat cctcctgctt ctccccgttac tgatcgtctg 150

P1618P2C3 sequence listing.txt

ctccctagag tccttcgtga agcttttat tcctaagagg agaaaatcag 200
tcaccggcga aatcgctg attacaggag ctggcatgg aattgggaga 250
ctgactgcct atgaatttgc taaactaaa agcaagctgg ttctctggga 300
tataaataag catggactgg aggaaacagc tgccaatgc aagggactgg 350
tgccaagggt tcataccctt gtggtagact gcagcaaccg agaagatatt 400
tacagctctg caaagaaggt gaaggcagaa attggagatg tttagtatttt 450
agtaaataat gctggtagtgc tctatacatc agatttgc 500
atccctcagat tgaaaagact ttgaagttt atgtacttgc acatttctgg 550
actacaaagg catttcttcc tgcaatgacg aagaataacc atggccatat 600
tgtcaactgtg gcttcggcag ctggacatgt ctcggcccc ttcttactgg 650
cttactgttc aagcaagttt gctgctgtt gatttcataa aactttgaca 700
gatgaactgg ctgccttaca aataactgga gtcaaaacaa catgtctgtg 750
tcctaatttc gtaaacactg gtttcatcaa aaatccaagt acaagtttgg 800
gaccactct ggaacctgag gaagtggtaa acaggctgtat gcatgggatt 850
ctgactgagc agaagatgtat tttagtttca tcttctatag cttttttaac 900
aacattggaa aggatccccc ctgagcgttt cctggcagtt ttaaaacgaa 950
aaatcagtgt taagtttgc gcatgttattt gatataaaat gaaagcgcaa 1000
taagcaccta gtttctgaa aactgattt ccaggttttag gttgatgtca 1050
tctaatacgat ccagaattttt aatgtttgaa cttctgtttt ttcttaattat 1100
ccccatttct tcaatatcat tttagggct ttggcagtct tcatttacta 1150
ccacttggc ttttagccaaa agctgattac atatgatata aacagagaaaa 1200
tacccctttaga ggtgacttta aggaaaatga agaaaaagaa cccaaatgac 1250
tttattaaaa taatttccaa gattatttgc ggctcacctg aaggcttgc 1300
aaaatttgc ccataaccgt ttatccaata tatatttttta tttagtatttgc 1350
cacttaaatt ttgtataatt tggctttctt ttctgttct acataaaatc 1400
agaaaacttca agctctctaa ataaaatgaa ggactatatc tagtggattt 1450
tcacaatgaa tatcatgaac tctcaatggg tagtttcat cctaccatt 1500
gccactctgt ttccctgagag atacctcaca ttccaaatgcc aaacatttct 1550
gcacaggggaa gcttaggggtg gatacacgtg ttgcaagtat aaaagcatca 1600
ctgggatttta aggagaatttgc agagaatgtt cccacaaatg gcagcaataa 1650
taaatggatc acacttaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1700
aaaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1750

P1618P2C3 sequence listing.txt

aaaaaaaaaaa aaaaaaaaaaa a 1771

<210> 159
<211> 300
<212> PRT
<213> Homo Sapien

<400> 159
Met Lys Phe Leu Leu Asp Ile Leu Leu Leu Pro Leu Leu Ile 15
1 5 10 15
Val Cys Ser Leu Glu Ser Phe Val Lys Leu Phe Ile Pro Lys Arg 30
20 25 30
Arg Lys Ser Val Thr Gly Glu Ile Val Leu Ile Thr Gly Ala Gly 45
35 40 45
His Gly Ile Gly Arg Leu Thr Ala Tyr Glu Phe Ala Lys Leu Lys 60
50 55 60
Ser Lys Leu Val Leu Trp Asp Ile Asn Lys His Gly Leu Glu Glu 75
65 70 75
Thr Ala Ala Lys Cys Lys Gly Leu Gly Ala Lys Val His Thr Phe 90
80 85 90
Val Val Asp Cys Ser Asn Arg Glu Asp Ile Tyr Ser Ser Ala Lys 105
95 100 105
Lys Val Lys Ala Glu Ile Gly Asp Val Ser Ile Leu Val Asn Asn 120
110 115 120
Ala Gly Val Val Tyr Thr Ser Asp Leu Phe Ala Thr Gln Asp Pro 135
125 130 135
Gln Ile Glu Lys Thr Phe Glu Val Asn Val Leu Ala His Phe Trp 150
140 145 150
Thr Thr Lys Ala Phe Leu Pro Ala Met Thr Lys Asn Asn His Gly 165
155 160 165
His Ile Val Thr Val Ala Ser Ala Ala Gly His Val Ser Val Pro 180
170 175 180
Phe Leu Leu Ala Tyr Cys Ser Ser Lys Phe Ala Ala Val Gly Phe 195
185 190 195
His Lys Thr Leu Thr Asp Glu Leu Ala Ala Leu Gln Ile Thr Gly 210
200 205 210
Val Lys Thr Thr Cys Leu Cys Pro Asn Phe Val Asn Thr Gly Phe 225
215 220 225
Ile Lys Asn Pro Ser Thr Ser Leu Gly Pro Thr Leu Glu Pro Glu 240
230 235 240
Glu Val Val Asn Arg Leu Met His Gly Ile Leu Thr Glu Gln Lys 255
245 250 255
Met Ile Phe Ile Pro Ser Ser Ile Ala Phe Leu Thr Thr Leu Glu 270
260 265 270

P1618P2C3 sequence listing.txt

Arg Ile Leu Pro Glu Arg Phe Leu Ala Val Leu Lys Arg Lys Ile
275 280 285

Ser Val Lys Phe Asp Ala Val Ile Gly Tyr Lys Met Lys Ala Gln
290 295 300

<210> 160

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 160

ggtgaaggca gaaattggag atg 23

<210> 161

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 161

atcccatgca tcagcctgtt tacc 24

<210> 162

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 162

gctgggttag tctatacatc agatttgttt gctacacaag atccttag 48

<210> 163

<211> 2076

<212> DNA

<213> Homo Sapien

<400> 163

cccacgcgtc cgccggacgcg tgggtcgact agttctagat cgccgagcggc 50

cgcggcggc tcagggagga gcaccgactg cgccgcaccc tgagagatgg 100

tgggtgccat gtgaaagggtg attgttcgc tggcctgtt gatgcctggc 150

ccctgtatg ggctgtttcg ctccctatac agaagtgttt ccatgccacc 200

taagggagac tcaggacagc cattattct cacccttac attgaagctg 250

ggaagatcca aaaaggaaga gaattgagtt tggtcggccc tttcccagga 300

ctgaacatga agagttatgc cggcttcctc accgtgaata agacttacaa 350

cagcaacctc ttcttctgggt tcttcccagc tcagatacag ccagaagatg 400

ccccagtagt tctctggcta cagggtgggc cgggaggttc atccatgttt 450

P1618P2C3 sequence listing.txt

ggactcttg tggAACATGG gcCTTATGTT gTCACAAGTA ACATGACCTT 500
gcgtgacaga gactccccct ggaccacaac gctctccatg ctttacattg 550
acaatccagt gggcacagggc ttcaGTTTA ctgatgatac ccacggatat 600
gcagtcaatg aggacgatgt agcacggat ttatacagtg cactaattca 650
gttttccag atatttcctg aatataaaaaa taatgacttt tatgtcactg 700
gggagtctta tgcaggaaa tatgtgccag ccattgcaca cctcatccat 750
tccctcaacc ctgtgagaga ggtgaagatc aacctgaacg gaattgctat 800
tggagatgga tattctgatc ccgaatcaat tataggggc tatgcagaat 850
tcctgtacca aattggcttg ttggatgaga agcaaaaaaa gtacttccag 900
aagcagtgcc atgaatgcat agaacacatc aggaagcaga actggttga 950
ggccttggaa atactggata aactactaga tggcgactta acaagtgatc 1000
cttcttactt ccagaatgtt acaggatgta gtaattacta taacttttg 1050
cggtgcacgg aacctgagga tcagcttac tatgtgaaat tttgtcact 1100
cccagaggtg agacaagcca tccacgtggg gaatcagact ttaatgatg 1150
gaactatagt tgaaaagtac ttgcgagaag atacagtaca gtcagttaa 1200
ccatggtaa ctgaaatcat gaataattat aaggttctga tctacaatgg 1250
ccaactggac atcatcgtgg cagctccct gacagagcgc tccttgatgg 1300
gcatggactg gaaaggatcc caggaataca agaaggcaga aaaaaaagtt 1350
tggaaagatct ttaaatctga cagtgaagtg gctggttaca tccggcaagc 1400
gggtgacttc catcaggtaa ttattcgagg tggaggacat attttaccct 1450
atgaccagcc tctgagagct tttgacatga ttaatcgatt catttatgga 1500
aaaggatggg atccttatgt tggataaact accttccaa aagagaacat 1550
cagaggtttt cattgctgaa aagaaaatcg taaaaacaga aaatgtcata 1600
ggaataaaaa aattatctt tcatatctgc aagattttt tcatcaataa 1650
aaattatcct tgaaaacaagt gagctttgt ttttgggggg agatgtttac 1700
tacaaaatta acatgagttac atgagtaaga attacattat ttaacttaaa 1750
ggatgaaagg tatggatgat gtgacactga gacaagatgt ataaatgaaa 1800
ttttagggtc ttgaatagga agttttatt tcttctaaaga gtaagtgaaa 1850
agtgcagttg taacaaacaa agctgtaaaca tcttttctg ccaataacag 1900
aagtttggca tgccgtgaag gtgtttggaa atattattgg ataagaatag 1950
ctcaattatc ccaaataaaat ggatgaagct ataatagttt tggggaaaag 2000
attctcaaatt gtataaagtc tttagaacaaa agaattcttt gaaataaaaa 2050

P1618P2C3 sequence listing.txt

tattatataaaa aaaagtaaaa aaaaaaa 2076

<210> 164
<211> 476
<212> PRT
<213> Homo sapien

<400> 164
Met Val Gly Ala Met Trp Lys Val Ile Val Ser Leu Val Leu Leu
1 5 10 15
Met Pro Gly Pro Cys Asp Gly Leu Phe Arg Ser Leu Tyr Arg Ser
20 25 30
Val Ser Met Pro Pro Lys Gly Asp Ser Gly Gln Pro Leu Phe Leu
35 40 45
Thr Pro Tyr Ile Glu Ala Gly Lys Ile Gln Lys Gly Arg Glu Leu
50 55 60
Ser Leu Val Gly Pro Phe Pro Gly Leu Asn Met Lys Ser Tyr Ala
65 70 75
Gly Phe Leu Thr Val Asn Lys Thr Tyr Asn Ser Asn Leu Phe Phe
80 85 90
Trp Phe Phe Pro Ala Gln Ile Gln Pro Glu Asp Ala Pro Val Val
95 100 105
Leu Trp Leu Gln Gly Gly Pro Gly Gly Ser Ser Met Phe Gly Leu
110 115 120
Phe Val Glu His Gly Pro Tyr Val Val Thr Ser Asn Met Thr Leu
125 130 135
Arg Asp Arg Asp Phe Pro Trp Thr Thr Thr Leu Ser Met Leu Tyr
140 145 150
Ile Asp Asn Pro Val Gly Thr Gly Phe Ser Phe Thr Asp Asp Thr
155 160 165
His Gly Tyr Ala Val Asn Glu Asp Asp Val Ala Arg Asp Leu Tyr
170 175 180
Ser Ala Leu Ile Gln Phe Phe Gln Ile Phe Pro Glu Tyr Lys Asn
185 190 195
Asn Asp Phe Tyr Val Thr Gly Glu Ser Tyr Ala Gly Lys Tyr Val
200 205 210
Pro Ala Ile Ala His Leu Ile His Ser Leu Asn Pro Val Arg Glu
215 220 225
Val Lys Ile Asn Leu Asn Gly Ile Ala Ile Gly Asp Gly Tyr Ser
230 235 240
Asp Pro Glu Ser Ile Ile Gly Gly Tyr Ala Glu Phe Leu Tyr Gln
245 250 255
Ile Gly Leu Leu Asp Glu Lys Gln Lys Lys Tyr Phe Gln Lys Gln
260 265 270

P1618P2C3 sequence listing.txt

Cys His Glu Cys Ile Glu His Ile Arg Lys Gln Asn Trp Phe Glu
275 280 285

Ala Phe Glu Ile Leu Asp Lys Leu Leu Asp Gly Asp Leu Thr Ser
290 295 300

Asp Pro Ser Tyr Phe Gln Asn Val Thr Gly Cys Ser Asn Tyr Tyr
305 310 315

Asn Phe Leu Arg Cys Thr Glu Pro Glu Asp Gln Leu Tyr Tyr Val
320 325 330

Lys Phe Leu Ser Leu Pro Glu Val Arg Gln Ala Ile His Val Gly
335 340 345

Asn Gln Thr Phe Asn Asp Gly Thr Ile Val Glu Lys Tyr Leu Arg
350 355 360

Glu Asp Thr Val Gln Ser Val Lys Pro Trp Leu Thr Glu Ile Met
365 370 375

Asn Asn Tyr Lys Val Leu Ile Tyr Asn Gly Gln Leu Asp Ile Ile
380 385 390

Val Ala Ala Ala Leu Thr Glu Arg Ser Leu Met Gly Met Asp Trp
395 400 405

Lys Gly Ser Gln Glu Tyr Lys Lys Ala Glu Lys Lys Val Trp Lys
410 415 420

Ile Phe Lys Ser Asp Ser Glu Val Ala Gly Tyr Ile Arg Gln Ala
425 430 435

Gly Asp Phe His Gln Val Ile Ile Arg Gly Gly Gly His Ile Leu
440 445 450

Pro Tyr Asp Gln Pro Leu Arg Ala Phe Asp Met Ile Asn Arg Phe
455 460 465

Ile Tyr Gly Lys Gly Trp Asp Pro Tyr Val Gly
470 475

<210> 165
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 165
ttccatgcca cctaaggag actc 24

<210> 166
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 166
tggatgaggt gtgcaatggc tggc 24

P1618P2C3 sequence listing.txt

<210> 167
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 167
agctctcaga ggctggatcat aggg 24

<210> 168
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 168
gtcggccctt tcccaggact gaacatgaag agttatgccg gcttcctcac 50

<210> 169
<211> 2477
<212> DNA
<213> Homo Sapien

<400> 169
cgagggcttt tccggctccg gaatggcaca tgtggaaatc ccagtcttgt 50
tggctacaac atttttccct ttcctaacaat gttctaacat cttttcttaac 100
agctagtat caggggttct tcttgcttggaa gaagaaaaggc ctgagggcag 150
agcagggcac tctcactcag ggtgaccagc tccttgccctc tctgtggata 200
acagagcatg agaaaatgtaa gagatgcagc ggagttaggt gatggaaatgc 250
taaaatagga aggaatttttgc tgtaaatat cagactctgg gagcagttga 300
cctggagagc ctggggagg gcctgcctaa caagcttca aaaaacagga 350
gcgacttcca ctgggcttggg ataagacgtg ccggtaggat aggaaagact 400
gggttagtc ctaatatcaa attgactggc tgggtgaact tcaacagcct 450
tttaacctct ctgggagatg aaaacgtatgg cttaagggc cagaaataga 500
gatgcttgtt aaaaataaaat tttaaaaaaaa gcaagtatgg tatagcataa 550
aggctagaga cccaaataga taacaggatt ccctgaacat tcctaaaggagg 600
gagaaaatgtt gttaaaaata gaaaaaccaa aatgcagaag gaggagactc 650
acagagctaa accaggatgg ggacccttggg tcaggccagc ctcttgctc 700
ctccccggaaa ttatTTTgg tctgaccact ctgccttgg ttttgcagaa 750
tcatgtgagg gccaaccggg gaaggtggag cagatgagca cacacaggag 800
ccgtctccctc accggccccc ctctcagcat ggaacagagg cagccctggc 850

P1618P2C3 sequence listing.txt

ccggggccct ggaggtggac agccgctctg tggcctgct ctcagtggtc 900
tgggtgctgc tggccccccc agcagccggc atgcctcagt tcagcacctt 950
ccactctgag aatcgtgact ggaccttcaa ccacttgacc gtccaccaag 1000
ggacgggggc cgtctatgtg ggggccatca accgggtcta taagctgaca 1050
ggcaacacctga ccatccaggt ggctcataag acagggccag aaggaggacaa 1100
caagtctcgta taccggcccc tcatcgta gcccctgcagc gaagtgctca 1150
ccctcaccaa caatgtcaac aagctgctca tcattgacta ctctgagaac 1200
cgccctgctgg cctgtgggag cctctaccag ggggtctgca agctgctgcf 1250
gctggatgac ctcttcatcc tggtggagcc atcccaacaag aaggaggact 1300
acctgtccag tgtcaacaag acggggcacca tgtacggggt gattgtgcgc 1350
tctgagggtg aggatggcaa gctttcatc ggcacggctg tgatggaa 1400
gcaggattac ttcccgaccc tgtccagccg gaagctgccc cgagaccctg 1450
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cttctacatc tacggcttg cttagtgggg ctttgtctac tttctactg 1600
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taccaggcg agggcaacct ggagctcaac tggctgctgg ggaaggacgt 2000
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cggtacagc gtggttttg tggggactaa gagtgcaag ctgaaaaagg 2200
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gagtccctct tggaaaggtag ctattggtgg agathtaact ataggcaact 2300
ttatTTTCTT ggggaacaaa ggtgaaatgg ggaggttaaga aggggttaat 2350
tttgtgactt agcttcttagc tacttcctcc agccatcagt cattgggtat 2400
gtaaggaatg caagcgtatt tcaatatttc ccaaacttta agaaaaaaact 2450

P1618P2C3 sequence listing.txt

ttaagaaggt acatctgcaa aagcaaa 2477

<210> 170
<211> 552
<212> PRT
<213> Homo Sapien

<400> 170
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1 5 10 15
Tyr Phe Trp Ser Asp His Ser Ala Leu Cys Phe Ala Glu Ser Cys
20 25 30
Glu Gly Gln Pro Gly Lys Val Glu Gln Met Ser Thr His Arg Ser
35 40 45
Arg Leu Leu Thr Ala Ala Pro Leu Ser Met Glu Gln Arg Gln Pro
50 55 60
Trp Pro Arg Ala Leu Glu Val Asp Ser Arg Ser Val Val Leu Leu
65 70 75
Ser Val Val Trp Val Leu Leu Ala Pro Pro Ala Ala Gly Met Pro
80 85 90
Gln Phe Ser Thr Phe His Ser Glu Asn Arg Asp Trp Thr Phe Asn
95 100 105
His Leu Thr Val His Gln Gly Thr Gly Ala Val Tyr Val Gly Ala
110 115 120
Ile Asn Arg Val Tyr Lys Leu Thr Gly Asn Leu Thr Ile Gln Val
125 130 135
Ala His Lys Thr Gly Pro Glu Glu Asp Asn Lys Ser Arg Tyr Pro
140 145 150
Pro Leu Ile Val Gln Pro Cys Ser Glu Val Leu Thr Leu Thr Asn
155 160 165
Asn Val Asn Lys Leu Leu Ile Ile Asp Tyr Ser Glu Asn Arg Leu
170 175 180
Leu Ala Cys Gly Ser Leu Tyr Gln Gly Val Cys Lys Leu Leu Arg
185 190 195
Leu Asp Asp Leu Phe Ile Leu Val Glu Pro Ser His Lys Lys Glu
200 205 210
His Tyr Leu Ser Ser Val Asn Lys Thr Gly Thr Met Tyr Gly Val
215 220 225
Ile Val Arg Ser Glu Gly Glu Asp Gly Lys Leu Phe Ile Gly Thr
230 235 240
Ala Val Asp Gly Lys Gln Asp Tyr Phe Pro Thr Leu Ser Ser Arg
245 250 255
Lys Leu Pro Arg Asp Pro Glu Ser Ser Ala Met Leu Asp Tyr Glu
260 265 270

P1618P2C3 sequence listing.txt

Leu His Ser Asp Phe Val Ser Ser Leu Ile Lys Ile Pro Ser Asp
275 280 285

Thr Leu Ala Leu Val Ser His Phe Asp Ile Phe Tyr Ile Tyr Gly
290 295 300

Phe Ala Ser Gly Gly Phe Val Tyr Phe Leu Thr Val Gln Pro Glu
305 310 315

Thr Pro Glu Gly Val Ala Ile Asn Ser Ala Gly Asp Leu Phe Tyr
320 325 330

Thr Ser Arg Ile Val Arg Leu Cys Lys Asp Asp Pro Lys Phe His
335 340 345

Ser Tyr Val Ser Leu Pro Phe Gly Cys Thr Arg Ala Gly Val Glu
350 355 360

Tyr Arg Leu Leu Gln Ala Ala Tyr Leu Ala Lys Pro Gly Asp Ser
365 370 375

Leu Ala Gln Ala Phe Asn Ile Thr Ser Gln Asp Asp Val Leu Phe
380 385 390

Ala Ile Phe Ser Lys Gly Gln Lys Gln Tyr His His Pro Pro Asp
395 400 405

Asp Ser Ala Leu Cys Ala Phe Pro Ile Arg Ala Ile Asn Leu Gln
410 415 420

Ile Lys Glu Arg Leu Gln Ser Cys Tyr Gln Gly Glu Gly Asn Leu
425 430 435

Glu Leu Asn Trp Leu Leu Gly Lys Asp Val Gln Cys Thr Lys Ala
440 445 450

Pro Val Pro Ile Asp Asp Asn Phe Cys Gly Leu Asp Ile Asn Gln
455 460 465

Pro Leu Gly Gly Ser Thr Pro Val Glu Gly Leu Thr Leu Tyr Thr
470 475 480

Thr Ser Arg Asp Arg Met Thr Ser Val Ala Ser Tyr Val Tyr Asn
485 490 495

Gly Tyr Ser Val Val Phe Val Gly Thr Lys Ser Gly Lys Leu Lys
500 505 510

Lys Val Arg Val Tyr Glu Phe Arg Cys Ser Asn Ala Ile His Leu
515 520 525

Leu Ser Lys Glu Ser Leu Leu Glu Gly Ser Tyr Trp Trp Arg Phe
530 535 540

Asn Tyr Arg Gln Leu Tyr Phe Leu Gly Glu Gln Arg
545 550

<210> 171

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

P1618P2C3 sequence listing.txt

<223> Synthetic Oligonucleotide Probe

<400> 171
tgaataccg ctcctgcag 20

<210> 172
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 172
cttcgtccct ttggagaaga tggc 24

<210> 173
<211> 43
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 173
ggactcactg gcccaggcct tcaatatcac cagccaggac gat 43

<210> 174
<211> 3106
<212> DNA
<213> Homo Sapien

<220>
<221> unsure
<222> 1683
<223> unknown base

<400> 174
aggctccgc gcgcggctga gtgcggactg gagtggaaac ccgggtcccc 50
gcgccttagag aacacgcgt gaccacgtgg agcctccggc ggaggccggc 100
ccgcacgctg ggactcctgc tgctggcgt cttggcttc ctggtgctcc 150
gcaggctgga ctggagcacc ctggtccctc tgcggctccg ccatcgacag 200
ctggggctgc aggccaaggg ctggaacttc atgctggagg attccacatt 250
ctggatcttc gggggctcca tccactattt ccgtgtccc agggagtact 300
ggagggaccg cctgctgaag atgaaggcct gtggctgaa caccctcacc 350
acctatgttc cgtggAACCT gcatgagcca gaaagaggca aatttgactt 400
ctctggaaac ctggacctgg aggcctcgt cctgatggcc gcagagatcg 450
ggctgtgggt gattctgcgt ccaggccc acatctgcag tgagatggac 500
ctcggggct tgcccaagctg gctactccaa gaccctggca tgaggctgag 550
gacaacttac aagggcttca ccgaaggcgt ggacctttat tttgaccacc 600
tgatgtccag ggtggtgcca ctccagttaca agcgtggggg acctatcatt 650

P1618P2C3 sequence listing.txt

gccgtgcagg tggagaatga atatggttcc tataataaag accccgcata 700
catgccctac gtcaagaagg cactggagga ccgtggcatt gtggaaactgc 750
tcctgacttc agacaacaag gatgggctga gcaagggat tgtccaggga 800
gtcttggcca ccatcaactt gcagtcaaca cacgagctgc agctactgac 850
cacctttctc ttcaacgtcc aggggactca gcccaagatg gtgatggagt 900
actggacggg gtggtttgc tcgtggggag gccctcacaa tatcttgat 950
tcttctgagg ttttggaaaac cgtgtctgcc attgtggacg ccggctcctc 1000
catcaacctc tacatgttcc acggaggcac caactttggc ttcatgaatg 1050
gagccatgca cttccatgac tacaagttagt atgtcaccag ctatgactat 1100
gatgctgtgc tgacagaagc cgccgattac acggccaagt acatgaagct 1150
tcgagacttc ttcggctcca tctcaggcat ccctctccct cccccacctg 1200
accttcttcc caagatgccg tatgagccct taacgccagt cttgtacctg 1250
tctctgtggg acgcccctaa gtacctgggg gagccaatca agtctgaaaa 1300
gccccatcaac atggagaacc tgccagtcaa tgggggaaat ggacagtcc 1350
tcgggtacat tctctatgag accagcatca cctcgctctgg catcctcagt 1400
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acaccgtgct gaggatcttgc gtggagaatc gtgggcaggt caactatggg 1550
gagaatattt atgaccagcg caaaggctta attggaaatc tctatctgaa 1600
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acctggcag gaaccagtac attaagttagt cgggtggcacc ccctcctgct 2000
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actgggggct acagtctgcc cctgtctcag ctcaaaaccc taaggcttgc 2150
gggaaagggtg ggtatggctt gggcctggct ttgttgatga tggctttcc 2200

P1618P2C3 sequence listing.txt

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gcccttgcac cgacgtcac agccctgcga gcatctgctg gactcaggcg 2350
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gaagtgtgtc caagtccgca tttgagcctt gttctggggc ccagcccaac 3050
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tcacaa 3106

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<211> 636

<212> PRT

<213> Homo Sapien

<220>

<221> unsure

<222> 539

<223> unknown amino acid

<400> 175

Met Thr Thr Trp Ser Leu Arg Arg Arg Pro Ala Arg Thr Leu Gly
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Leu Leu Leu Leu Val Val Leu Gly Phe Leu Val Leu Arg Arg Leu
20 25 30

Asp Trp Ser Thr Leu Val Pro Leu Arg Leu Arg His Arg Gln Leu
35 40 45

Gly Leu Gln Ala Lys Gly Trp Asn Phe Met Leu Glu Asp Ser Thr
50 55 60

Phe Trp Ile Phe Gly Gly Ser Ile His Tyr Phe Arg Val Pro Arg
65 70 75

P1618P2C3 sequence listing.txt

Glu Tyr Trp Arg Asp Arg Leu Leu Lys Met Lys Ala Cys Gly Leu
80 85 90
Asn Thr Leu Thr Thr Tyr Val Pro Trp Asn Leu His Glu Pro Glu
95 100 105
Arg Gly Lys Phe Asp Phe Ser Gly Asn Leu Asp Leu Glu Ala Phe
110 115 120
Val Leu Met Ala Ala Glu Ile Gly Leu Trp Val Ile Leu Arg Pro
125 130 135
Gly Pro Tyr Ile Cys Ser Glu Met Asp Leu Gly Gly Leu Pro Ser
140 145 150
Trp Leu Leu Gln Asp Pro Gly Met Arg Leu Arg Thr Thr Tyr Lys
155 160 165
Gly Phe Thr Glu Ala Val Asp Leu Tyr Phe Asp His Leu Met Ser
170 175 180
Arg Val Val Pro Leu Gln Tyr Lys Arg Gly Gly Pro Ile Ile Ala
185 190 195
Val Gln Val Glu Asn Glu Tyr Gly Ser Tyr Asn Lys Asp Pro Ala
200 205 210
Tyr Met Pro Tyr Val Lys Lys Ala Leu Glu Asp Arg Gly Ile Val
215 220 225
Glu Leu Leu Leu Thr Ser Asp Asn Lys Asp Gly Leu Ser Lys Gly
230 235 240
Ile Val Gln Gly Val Leu Ala Thr Ile Asn Leu Gln Ser Thr His
245 250 255
Glu Leu Gln Leu Leu Thr Thr Phe Leu Phe Asn Val Gln Gly Thr
260 265 270
Gln Pro Lys Met Val Met Glu Tyr Trp Thr Gly Trp Phe Asp Ser
275 280 285
Trp Gly Gly Pro His Asn Ile Leu Asp Ser Ser Glu Val Leu Lys
290 295 300
Thr Val Ser Ala Ile Val Asp Ala Gly Ser Ser Ile Asn Leu Tyr
305 310 315
Met Phe His Gly Gly Thr Asn Phe Gly Phe Met Asn Gly Ala Met
320 325 330
His Phe His Asp Tyr Lys Ser Asp Val Thr Ser Tyr Asp Tyr Asp
335 340 345
Ala Val Leu Thr Glu Ala Gly Asp Tyr Thr Ala Lys Tyr Met Lys
350 355 360
Leu Arg Asp Phe Phe Gly Ser Ile Ser Gly Ile Pro Leu Pro Pro
365 370 375
Pro Pro Asp Leu Leu Pro Lys Met Pro Tyr Glu Pro Leu Thr Pro
380 385 390

P1618P2C3 sequence listing.txt

Val Leu Tyr Leu Ser Leu Trp Asp Ala Leu Lys Tyr Leu Gly Glu
395 400 405
Pro Ile Lys Ser Glu Lys Pro Ile Asn Met Glu Asn Leu Pro Val
410 415 420
Asn Gly Gly Asn Gly Gln Ser Phe Gly Tyr Ile Leu Tyr Glu Thr
425 430 435
Ser Ile Thr Ser Ser Gly Ile Leu Ser Gly His Val His Asp Arg
440 445 450
Gly Gln Val Phe Val Asn Thr Val Ser Ile Gly Phe Leu Asp Tyr
455 460 465
Lys Thr Thr Lys Ile Ala Val Pro Leu Ile Gln Gly Tyr Thr Val
470 475 480
Leu Arg Ile Leu Val Glu Asn Arg Gly Arg Val Asn Tyr Gly Glu
485 490 495
Asn Ile Asp Asp Gln Arg Lys Gly Leu Ile Gly Asn Leu Tyr Leu
500 505 510
Asn Asp Ser Pro Leu Lys Asn Phe Arg Ile Tyr Ser Leu Asp Met
515 520 525
Lys Lys Ser Phe Phe Gln Arg Phe Gly Leu Asp Lys Trp Xaa Ser
530 535 540
Leu Pro Glu Thr Pro Thr Leu Pro Ala Phe Phe Leu Gly Ser Leu
545 550 555
Ser Ile Ser Ser Thr Pro Cys Asp Thr Phe Leu Lys Leu Glu Gly
560 565 570
Trp Glu Lys Gly Val Val Phe Ile Asn Gly Gln Asn Leu Gly Arg
575 580 585
Tyr Trp Asn Ile Gly Pro Gln Lys Thr Leu Tyr Leu Pro Gly Pro
590 595 600
Trp Leu Ser Ser Gly Ile Asn Gln Val Ile Val Phe Glu Glu Thr
605 610 615
Met Ala Gly Pro Ala Leu Gln Phe Thr Glu Thr Pro His Leu Gly
620 625 630
Arg Asn Gln Tyr Ile Lys
635

<210> 176
<211> 2505
<212> DNA
<213> Homo Sapien

<400> 176
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ggtcccagga ccctggtgag gttctctac ttggccttcg gtgggggtca 100
agacgcaggc acctacgcca aaggggagca aagccgggct cggcccgagg 150
Page 110

P1618P2C3 sequence listing.txt

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gaagctgtcc tgccttcgtt cccctgctgct gccgctcagc ctgacgctac 300
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gagccacagc ctggggtcta taactttaat ggcagccggg acctcattgc 550
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cgcagtggac tcctgggtca aggtcttgc gccaagata tatccatggc 750
tttatcacaa tggggcaac atcattagca ttcaggttga gaatgaatat 800
ggtagctaca gagcctgtga cttagctac atgaggcaact tggctggct 850
cttccgtgca ctgctaggag aaaagatctt gctttcacc acagatggc 900
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gcttccttcc gattactacc agctatgact atgatgcacc tataatctgaa 1250
gcaggggacc ccacaccaa gcttttgct cttcgagatg tcacatgcaa 1300
gttccaggaa gttccttgg gaccttacc tccccggc cccaagatga 1350
tgcttggacc tgtgactctg cacctgggtt ggcatttact ggcttccta 1400
gacttgctt gccccgtgg gcccattcat tcaatcttgc caatgacctt 1450
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cccataccat tttttagcca acaccattct gggtgccaaa taatggagtc 1550
catgaccgtg cctatgtat ggtggatggg gtgttccagg gtgttgtgga 1600
gcgaaatatg agagacaaac tattttgac gggaaactg gggtccaaac 1650
tgatatatctt ggtggagaac atggggaggc tcagcttgg gtctaacagc 1700

P1618P2C3 sequence listing.txt

agtgacttca agggcctgtt gaagccacca attctgggc aaacaatcct 1750
tacccagtgg atgatgttcc ctctgaaaat tgataacctt gtgaagtgg 1800
ggtttcccct ccagttgcca aaatggccat atcctaaggc tccttctggc 1850
cccacattct actccaaaac atttccaatt ttaggctcag ttggggacac 1900
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gggaggctga gacgggtgga ttacctgagg tcaggacttc aagaccagcc 2300
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aaaaaa 2505

<210> 177

<211> 654

<212> PRT

<213> Homo Sapien

<400> 177

Met Ala Pro Lys Lys Leu Ser Cys Leu Arg Ser Leu Leu Leu Pro
1 5 10 15

Leu Ser Leu Thr Leu Leu Leu Pro Gln Ala Asp Thr Arg Ser Phe
20 25 30

Val Val Asp Arg Gly His Asp Arg Phe Leu Leu Asp Gly Ala Pro
35 40 45

Phe Arg Tyr Val Ser Gly Ser Leu His Tyr Phe Arg Val Pro Arg
50 55 60

Val Leu Trp Ala Asp Arg Leu Leu Lys Met Arg Trp Ser Gly Leu
65 70 75

Asn Ala Ile Gln Phe Tyr Val Pro Trp Asn Tyr His Glu Pro Gln
80 85 90

Pro Gly Val Tyr Asn Phe Asn Gly Ser Arg Asp Leu Ile Ala Phe
95 100 105

Leu Asn Glu Ala Ala Leu Ala Asn Leu Leu Val Ile Leu Arg Pro
110 115 120

P1618P2C3 sequence listing.txt

Gly	Pro	Tyr	Ile	Cys	Ala	Glu	Trp	Glu	Met	Gly	Gly	Leu	Pro	Ser
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Trp	Leu	Leu	Arg	Lys	Pro	Glu	Ile	His	Leu	Arg	Thr	Ser	Asp	Pro
				140					145					150
Asp	Phe	Leu	Ala	Ala	Val	Asp	Ser	Trp	Phe	Lys	Val	Leu	Leu	Pro
				155					160					165
Lys	Ile	Tyr	Pro	Trp	Leu	Tyr	His	Asn	Gly	Gly	Asn	Ile	Ile	Ser
				170					175					180
Ile	Gln	Val	Glu	Asn	Glu	Tyr	Gly	Ser	Tyr	Arg	Ala	Cys	Asp	Phe
				185					190					195
Ser	Tyr	Met	Arg	His	Leu	Ala	Gly	Leu	Phe	Arg	Ala	Leu	Leu	Gly
				200					205					210
Glu	Lys	Ile	Leu	Leu	Phe	Thr	Thr	Asp	Gly	Pro	Glu	Gly	Leu	Lys
				215					220					225
Cys	Gly	Ser	Leu	Arg	Gly	Leu	Tyr	Thr	Thr	Val	Asp	Phe	Gly	Pro
				230					235					240
Ala	Asp	Asn	Met	Thr	Lys	Ile	Phe	Thr	Leu	Leu	Arg	Lys	Tyr	Glu
				245					250					255
Pro	His	Gly	Pro	Leu	Val	Asn	Ser	Glu	Tyr	Tyr	Thr	Gly	Trp	Leu
				260					265					270
Asp	Tyr	Trp	Gly	Gln	Asn	His	Ser	Thr	Arg	Ser	Val	Ser	Ala	Val
				275					280					285
Thr	Lys	Gly	Leu	Glu	Asn	Met	Leu	Lys	Leu	Gly	Ala	Ser	Val	Asn
				290					295					300
Met	Tyr	Met	Phe	His	Gly	Gly	Thr	Asn	Phe	Gly	Tyr	Trp	Asn	Gly
				305					310					315
Ala	Asp	Lys	Lys	Gly	Arg	Phe	Leu	Pro	Ile	Thr	Thr	Ser	Tyr	Asp
				320					325					330
Tyr	Asp	Ala	Pro	Ile	Ser	Glu	Ala	Gly	Asp	Pro	Thr	Pro	Lys	Leu
				335					340					345
Phe	Ala	Leu	Arg	Asp	Val	Ile	Ser	Lys	Phe	Gln	Glu	Val	Pro	Leu
				350					355					360
Gly	Pro	Leu	Pro	Pro	Pro	Ser	Pro	Lys	Met	Met	Leu	Gly	Pro	Val
				365					370					375
Thr	Leu	His	Leu	Val	Gly	His	Leu	Leu	Ala	Phe	Leu	Asp	Leu	Leu
				380					385					390
Cys	Pro	Arg	Gly	Pro	Ile	His	Ser	Ile	Leu	Pro	Met	Thr	Phe	Glu
				395					400					405
Ala	Val	Lys	Gln	Asp	His	Gly	Phe	Met	Leu	Tyr	Arg	Thr	Tyr	Met
				410					415					420
Thr	His	Thr	Ile	Phe	Glu	Pro	Thr	Pro	Phe	Trp	Val	Pro	Asn	Asn
				425					430					435

P1618P2C3 sequence listing.txt

Gly Val His Asp Arg Ala Tyr Val Met Val Asp Gly Val Phe Gln
440 445 450
Gly Val Val Glu Arg Asn Met Arg Asp Lys Leu Phe Leu Thr Gly
455 460 465
Lys Leu Gly Ser Lys Leu Asp Ile Leu Val Glu Asn Met Gly Arg
470 475 480
Leu Ser Phe Gly Ser Asn Ser Ser Asp Phe Lys Gly Leu Leu Lys
485 490 495
Pro Pro Ile Leu Gly Gln Thr Ile Leu Thr Gln Trp Met Met Phe
500 505 510
Pro Leu Lys Ile Asp Asn Leu Val Lys Trp Trp Phe Pro Leu Gln
515 520 525
Leu Pro Lys Trp Pro Tyr Pro Gln Ala Pro Ser Gly Pro Thr Phe
530 535 540
Tyr Ser Lys Thr Phe Pro Ile Leu Gly Ser Val Gly Asp Thr Phe
545 550 555
Leu Tyr Leu Pro Gly Trp Thr Lys Gly Gln Val Trp Ile Asn Gly
560 565 570
Phe Asn Leu Gly Arg Tyr Trp Thr Lys Gln Gly Pro Gln Gln Thr
575 580 585
Leu Tyr Val Pro Arg Phe Leu Leu Phe Pro Arg Gly Ala Leu Asn
590 595 600
Lys Ile Thr Leu Leu Glu Leu Glu Asp Val Pro Leu Gln Pro Gln
605 610 615
Val Gln Phe Leu Asp Lys Pro Ile Leu Asn Ser Thr Ser Thr Leu
620 625 630
His Arg Thr His Ile Asn Ser Leu Ser Ala Asp Thr Leu Ser Ala
635 640 645
Ser Glu Pro Met Glu Leu Ser Gly His
650

<210> 178
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 178
tggctactcc aagaccctgg catg 24

<210> 179
<211> 24
<212> DNA
<213> Artificial Sequence

<220>

P1618P2C3 sequence listing.txt

<223> Synthetic Oligonucleotide Probe

<400> 179
tggacaaaatc cccttgctca gcccc 24

<210> 180
<211> 50
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 180
gggcttcacc gaagcagtgg acctttatgg tgaccacctg atgtccaggg 50

<210> 181
<211> 22
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 181
ccagctatga ctatgatgca cc 22

<210> 182
<211> 24
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 182
tggcacccag aatggtgttg gctc 24

<210> 183
<211> 50
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 183
cgagatgtca tcagcaagtt ccaggaagtt cctttggac ctttacctcc 50

<210> 184
<211> 1947
<212> DNA
<213> Homo Sapien

<400> 184
gctttgaaca cgtctgcaag cccaaagttt agcatctgat tggttatgag 50
gtatttgagt gcacccacaa tatggcttac atgttggaaaa agcttctcat 100
cagttacata tccattatgg gtgttatgg ctttatctgc ctctacactc 150
tcctctgggtt attcaggata ctttgaagg aatattcttt cgaaaaagtc 200

P1618P2C3 sequence listing.txt

agagaagaga gcagtttag tgacattcca gatgtcaaaa acgatttgc 250
gttccttctt cacatggtag accagtatga ccagctatat tccaagcg 300
ttggtgtgtt cttgtcagaa gtttagtggaa ataaacttag ggaaatttagt 350
ttgaaccatg agtggacatt tgaaaaactc aggccgacaca tticacgcaa 400
cgcccaggac aagcaggagt tgcacatgtt catgctgtcg ggggtgccc 450
atgctgtctt tgacctcaca gacctggatg tgctaaagct tgaactaatt 500
ccagaagcta aaattccgc taagattct caaatgacta acctccaaga 550
gctccacctc tgccactgcc ctgcaaaagt tgaacagact gcttttagct 600
ttcttcgcga tcacttgaga tgccttcacg tgaagttcac tcatgtggct 650
gaaattccctg cctgggtgta tttgctcaaa aaccccgag agttgtactt 700
aataggcaat ttgaactctg aaaacaataa gatgatagga ctgaatctc 750
tccgagagtt gcggcacctt aagattctcc acgtgaagag caatttgc 800
aaagttccct ccaacattac agatgtggct ccacatctt caaagtttagt 850
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tcatgtatgt cgctgagctg gaactccaga actgtgagct agagagaatc 950
ccacatgcta tttcagcct ctctaattt caggaactgg atttaaagtc 1000
caataacatt cgccacaattt agggaaatcat cagttccag cattttaaac 1050
gactgactt tttaaaatta tggcataaca aaattgttac tattcctccc 1100
tctattaccc atgtcaaaaa cttggagtca ctttatttct ctaacaacaa 1150
gctcgaatcc ttaccagtgg cagtatttag tttacagaaa ctcagatgct 1200
tagatgtgag ctacaacaac atttcaatga ttccaaataga aataggattt 1250
cttcagaacc tgcagcattt gcataatcact gggacaaag tggacattct 1300
gccaacacaa ttgtttaat gcataaagtt gaggacttg aatctgggac 1350
agaactgcat cacctcactc ccagagaaag ttggtcagct ctccagctc 1400
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ttttgatac cctgcccactc gaagtcaag aggcatgaa tcaagacata 1550
aatattccct ttgcaaatgg gatTTAAact aagataatat atgcacagt 1600
atgtgcagga acaactccct agattgcaag tgctcacgtt caagtttata 1650
caagataatg catttttagga gttagatacat cttttaaaat aaaacagaga 1700
ggatgcatag aaggctgata gaagacataa ctgaatgttc aatgtttgt 1750
gggttttaag tcattcattt ccaaatttattt tttttttttc ttttggggaa 1800

P1618P2C3 sequence listing.txt

aggaaaggaa aaattataat cactaatctt gggtttttt aaattgttg 1850
taacttggat gctgccgcta ctgaatgtt acaaattgct tgccctgctaa 1900
agtaaatgtat taaaattgaca ttttcttact aaaaaaaaaa aaaaaaaaa 1947
<210> 185
<211> 501
<212> PRT
<213> Homo Sapien
<400> 185
Met Ala Tyr Met Leu Lys Lys Leu Leu Ile Ser Tyr Ile Ser Ile
1 5 10 15
Ile Cys Val Tyr Gly Phe Ile Cys Leu Tyr Thr Leu Phe Trp Leu
20 25 30
Phe Arg Ile Pro Leu Lys Glu Tyr Ser Phe Glu Lys Val Arg Glu
35 40 45
Glu Ser Ser Phe Ser Asp Ile Pro Asp Val Lys Asn Asp Phe Ala
50 55 60
Phe Leu Leu His Met Val Asp Gln Tyr Asp Gln Leu Tyr Ser Lys
65 70 75
Arg Phe Gly Val Phe Leu Ser Glu Val Ser Glu Asn Lys Leu Arg
80 85 90
Glu Ile Ser Leu Asn His Glu Trp Thr Phe Glu Lys Leu Arg Gln
95 100 105
His Ile Ser Arg Asn Ala Gln Asp Lys Gln Glu Leu His Leu Phe
110 115 120
Met Leu Ser Gly Val Pro Asp Ala Val Phe Asp Leu Thr Asp Leu
125 130 135
Asp Val Leu Lys Leu Glu Leu Ile Pro Glu Ala Lys Ile Pro Ala
140 145 150
Lys Ile Ser Gln Met Thr Asn Leu Gln Glu Leu His Leu Cys His
155 160 165
Cys Pro Ala Lys Val Glu Gln Thr Ala Phe Ser Phe Leu Arg Asp
170 175 180
His Leu Arg Cys Leu His Val Lys Phe Thr Asp Val Ala Glu Ile
185 190 195
Pro Ala Trp Val Tyr Leu Leu Lys Asn Leu Arg Glu Leu Tyr Leu
200 205 210
Ile Gly Asn Leu Asn Ser Glu Asn Asn Lys Met Ile Gly Leu Glu
215 220 225
Ser Leu Arg Glu Leu Arg His Leu Lys Ile Leu His Val Lys Ser
230 235 240
Asn Leu Thr Lys Val Pro Ser Asn Ile Thr Asp Val Ala Pro His
245 250 255

P1618P2C3 sequence listing.txt

Leu Thr Lys Leu Val Ile His Asn Asp Gly Thr Lys Leu Leu Val
260 265 270
Leu Asn Ser Leu Lys Lys Met Met Asn Val Ala Glu Leu Glu Leu
275 280 285
Gln Asn Cys Glu Leu Glu Arg Ile Pro His Ala Ile Phe Ser Leu
290 295 300
Ser Asn Leu Gln Glu Leu Asp Leu Lys Ser Asn Asn Ile Arg Thr
305 310 315
Ile Glu Glu Ile Ile Ser Phe Gln His Leu Lys Arg Leu Thr Cys
320 325 330
Leu Lys Leu Trp His Asn Lys Ile Val Thr Ile Pro Pro Ser Ile
335 340 345
Thr His Val Lys Asn Leu Glu Ser Leu Tyr Phe Ser Asn Asn Lys
350 355 360
Leu Glu Ser Leu Pro Val Ala Val Phe Ser Leu Gln Lys Leu Arg
365 370 375
Cys Leu Asp Val Ser Tyr Asn Asn Ile Ser Met Ile Pro Ile Glu
380 385 390
Ile Gly Leu Leu Gln Asn Leu Gln His Leu His Ile Thr Gly Asn
395 400 405
Lys Val Asp Ile Leu Pro Lys Gln Leu Phe Lys Cys Ile Lys Leu
410 415 420
Arg Thr Leu Asn Leu Gly Gln Asn Cys Ile Thr Ser Leu Pro Glu
425 430 435
Lys Val Gly Gln Leu Ser Gln Leu Thr Gln Leu Glu Leu Lys Gly
440 445 450
Asn Cys Leu Asp Arg Leu Pro Ala Gln Leu Gly Gln Cys Arg Met
455 460 465
Leu Lys Lys Ser Gly Leu Val Val Glu Asp His Leu Phe Asp Thr
470 475 480
Leu Pro Leu Glu Val Lys Glu Ala Leu Asn Gln Asp Ile Asn Ile
485 490 495
Pro Phe Ala Asn Gly Ile
500

<210> 186

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 186

cctccctcta ttacccatgt c 21

P1618P2C3 sequence listing.txt

<210> 187
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 187
gaccaacttt ctctggagt gagg 24

<210> 188
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 188
gtcactttat ttctctaaca acaagctcga atccttacca gtggcag 47

<210> 189
<211> 2917
<212> DNA
<213> Homo Sapien

<400> 189
cccacgcgtc cggccttc tcggacttt gcattccat tcctttcat 50
tgacaaactg actttttta tttttttt tccatctctg ggccagctt 100
ggatcctagg ccgcctggg aagacattt tgtttacac acataaggat 150
ctgtgtttgg gtttcttct tcctccctg acattggcat tgcttagtgg 200
tttgtgtgggg agggagacca cgtggctca gtgcttgctt gcacttatct 250
gccttaggtac atcgaagtct tttgacctcc atacagtat tatgcctgtc 300
atcgctggtg gtatcctggc ggccttgctc ctgctgatag ttgtcgtgct 350
ctgtcttac ttcaaaaatac acaacgcgtc aaaagctgca aaggaacctg 400
aagctgtggc tgtaaaaat cacaacccag acaaggtgtg gtgggccaag 450
aacagccagg ccaaaaccat tgccacggag tcttgcctg ccctgcagt 500
ctgtgaagga tatagaatgt gtgccagttt tgattccctg ccaccttgct 550
gttgcgacat aaatgagggc ctctgagttt ggaaaggctc ccttctcaa 600
gcagagccct gaagacttca atgatgtcaa tgaggccacc tgggtgtat 650
gtgcaggcac agaagaaagg cacagctccc catcagtttc atggaaaata 700
actcagtgcc tgctggAAC cagctgtgg agatccctac agagagcttc 750
cactgggggc aacccttcca ggaaggagtt ggggagagag aaccctcact 800
gtggggaatg ctgataaacc agtcacacag ctgctctatt ctcacacaaa 850
tctacccctt gcgtggctgg aactgacgtt tccctggagg tgtccagaaa 900

P1618P2C3 sequence listing.txt

gctgatgtaa cacagagcct ataaaagctg tcggtcctta aggctgccca 950
gcgccttgcc aaaatggagc ttgtaagaag gctcatgcca ttgaccctct 1000
taattctctc ctgtttggcg gagctgacaa tggcggaggc tgaaggcaat 1050
gcaagctgca cagtcagtct agggggtgcc aatatggcag agacccacaa 1100
agccatgatc ctgcaactca atcccagtga gaactgcacc tggacaatag 1150
aaagaccaga aaacaaaagc atcagaatta tctttccta tgtccagctt 1200
gatccagatg gaagctgtga aagtaaaaac attaaagtct ttgacggaac 1250
ctccagcaat gggcctctgc tagggcaagt ctgcagtaaa aacgactatg 1300
ttcctgtatt tgaatcatca tccagtagat tgacgttca aatagttact 1350
gactcagcaa gaattcaaag aactgtctt gtcttctact acttcttctc 1400
tcctaacatc tctattccaa actgtggcg ttacctggat accttggaaag 1450
gatccttcac cagccccaaat tacccaaagc cgcatcctga gctggcttat 1500
tgtgtgtggc acatacaagt ggagaaagat tacaagataa aactaaactt 1550
caaagagatt ttcctagaaa tagacaaaca gtcaaattt gattttctt 1600
ccatctatga tggccctcc accaactctg gcctgattgg acaagtctgt 1650
ggccgtgtga ctcccacctt cgaatcgta tcaaactctc tgactgtcgt 1700
gttgtctaca gattatgcca attcttaccg gggattttct gttccttaca 1750
cctcaattt a tgcagaaaac atcaacacta catcttaac ttgctttct 1800
gacaggatga gagttattt aagcaaatcc tacctagagg ctttaactc 1850
taatggaaat aacttgcac taaaagaccc aacttgcaga ccaaaattat 1900
caaatgttgt ggaattttct gtcccttta atggatgtgg tacaatcaga 1950
aaggtagaag atcagtcaat tacttacacc aatataatca cttttctgc 2000
atcctcaact tctgaagtga tcacccgtca gaaacaactc cagattattg 2050
tgaagtgtga aatggacat aattctacag tggagataat atacataaca 2100
gaagatgtg taatacaag tcaaatgca ctgggcaaat ataacaccag 2150
catggctctt tttgaatcca attcattga aaagactata cttgaatcac 2200
catattatgt ggatttgaac caaactctt ttgttcaagt tagtctgcac 2250
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cacctctgac tttgcatctc caacctacga cctaattcaag agtggatgta 2350
gtcgagatga aacttgcac gtgtatccct tatttggaca ctatggaga 2400
ttccagttta atgcctttaa attcttgaga agtatgagct ctgtgtatct 2450

P1618P2C3 sequence listing.txt

gcagtgtaaa gtttgatat gtgatagcag tgaccaccag tctcgctgca 2500
atcaagggtt gttccaga agcaaacgag acatttcttc atataaatgg 2550
aaaacagatt ccatcatagg acccattcgt ctgaaaaggg atcgaagtgc 2600
aagtggcaat tcaggatttc agcatgaaac acatgcggaa gaaactccaa 2650
accagccttt caacagtgtg catctgttt cttcatggt tctagctctg 2700
aatgtggta ctgtagcgc aatcacagtg aggcatggg taaatcaacg 2750
ggcagactac aaataccaga agctgcagaa ctattaacta acaggtccaa 2800
ccctaagtga gacatgttc tccaggatgc caaaggaaat gctacctcg 2850
ggctacacat attatgaata aatgaggaag ggcctgaaag tgacacacag 2900
gcctgcgtgt aaaaaaa 2917

<210> 190

<211> 607

<212> PRT

<213> Homo Sapien

<400> 190

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Ser	Cys	Leu	Ala	Glu	Leu	Thr	Met	Ala	Glu	Ala	Glu	Gly	Asn	Ala
				20					25				30	
Ser	Cys	Thr	Val	Ser	Leu	Gly	Gly	Ala	Asn	Met	Ala	Glu	Thr	His
				35				40					45	
Lys	Ala	Met	Ile	Leu	Gln	Leu	Asn	Pro	Ser	Glu	Asn	Cys	Thr	Trp
				50					55				60	
Thr	Ile	Glu	Arg	Pro	Glu	Asn	Lys	Ser	Ile	Arg	Ile	Ile	Phe	Ser
				65					70				75	
Tyr	Val	Gln	Leu	Asp	Pro	Asp	Gly	Ser	Cys	Glu	Ser	Glu	Asn	Ile
				80					85				90	
Lys	Val	Phe	Asp	Gly	Thr	Ser	Ser	Asn	Gly	Pro	Leu	Leu	Gly	Gln
				95					100				105	
Val	Cys	Ser	Lys	Asn	Asp	Tyr	Val	Pro	Val	Phe	Glu	Ser	Ser	Ser
				110					115				120	
Ser	Thr	Leu	Thr	Phe	Gln	Ile	Val	Thr	Asp	Ser	Ala	Arg	Ile	Gln
				125					130				135	
Arg	Thr	Val	Phe	Val	Phe	Tyr	Tyr	Phe	Phe	Ser	Pro	Asn	Ile	Ser
				140					145				150	
Ile	Pro	Asn	Cys	Gly	Gly	Tyr	Leu	Asp	Thr	Leu	Glu	Gly	Ser	Phe
				155					160				165	
Thr	Ser	Pro	Asn	Tyr	Pro	Lys	Pro	His	Pro	Glu	Leu	Ala	Tyr	Cys
				170					175				180	
val	Trp	His	Ile	Gln	Val	Glu	Lys	Asp	Tyr	Lys	Ile	Lys	Leu	Asn

185 P1618P2C3 sequence listing.txt
190 195

Phe Lys Glu Ile Phe Leu Glu Ile Asp Lys Gln Cys Lys Phe Asp
200 205 210
Phe Leu Ala Ile Tyr Asp Gly Pro Ser Thr Asn Ser Gly Leu Ile
215 220 225
Gly Gln Val Cys Gly Arg Val Thr Pro Thr Phe Glu Ser Ser Ser
230 235 240
Asn Ser Leu Thr Val Val Leu Ser Thr Asp Tyr Ala Asn Ser Tyr
245 250 255
Arg Gly Phe Ser Ala Ser Tyr Thr Ser Ile Tyr Ala Glu Asn Ile
260 265 270
Asn Thr Thr Ser Leu Thr Cys Ser Ser Asp Arg Met Arg Val Ile
275 280 285
Ile Ser Lys Ser Tyr Leu Glu Ala Phe Asn Ser Asn Gly Asn Asn
290 295 300
Leu Gln Leu Lys Asp Pro Thr Cys Arg Pro Lys Leu Ser Asn Val
305 310 315
Val Glu Phe Ser Val Pro Leu Asn Gly Cys Gly Thr Ile Arg Lys
320 325 330
Val Glu Asp Gln Ser Ile Thr Tyr Thr Asn Ile Ile Thr Phe Ser
335 340 345
Ala Ser Ser Thr Ser Glu Val Ile Thr Arg Gln Lys Gln Leu Gln
350 355 360
Ile Ile Val Lys Cys Glu Met Gly His Asn Ser Thr Val Glu Ile
365 370 375
Ile Tyr Ile Thr Glu Asp Asp Val Ile Gln Ser Gln Asn Ala Leu
380 385 390
Gly Lys Tyr Asn Thr Ser Met Ala Leu Phe Glu Ser Asn Ser Phe
395 400 405
Glu Lys Thr Ile Leu Glu Ser Pro Tyr Tyr Val Asp Leu Asn Gln
410 415 420
Thr Leu Phe Val Gln Val Ser Leu His Thr Ser Asp Pro Asn Leu
425 430 435
Val Val Phe Leu Asp Thr Cys Arg Ala Ser Pro Thr Ser Asp Phe
440 445 450
Ala Ser Pro Thr Tyr Asp Leu Ile Lys Ser Gly Cys Ser Arg Asp
455 460 465
Glu Thr Cys Lys Val Tyr Pro Leu Phe Gly His Tyr Gly Arg Phe
470 475 480
Gln Phe Asn Ala Phe Lys Phe Leu Arg Ser Met Ser Ser Val Tyr
485 490 495
Leu Gln Cys Lys Val Leu Ile Cys Asp Ser Ser Asp His Gln Ser

P1618P2C3 sequence listing.txt
500 505 510

Arg Cys Asn Gln Gly Cys Val Ser Arg Ser Lys Arg Asp Ile Ser
515 520 525
Ser Tyr Lys Trp Lys Thr Asp Ser Ile Ile Gly Pro Ile Arg Leu
530 535 540
Lys Arg Asp Arg Ser Ala Ser Gly Asn Ser Gly Phe Gln His Glu
545 550 555
Thr His Ala Glu Glu Thr Pro Asn Gln Pro Phe Asn Ser Val His
560 565 570
Leu Phe Ser Phe Met Val Leu Ala Leu Asn Val Val Thr Val Ala
575 580 585
Thr Ile Thr Val Arg His Phe Val Asn Gln Arg Ala Asp Tyr Lys
590 595 600
Tyr Gln Lys Leu Gln Asn Tyr
605

<210> 191
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 191
tctctattcc aaactgtggc g 21

<210> 192
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 192
tttgatgacg attcgaaggt gg 22

<210> 193
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 193
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<210> 194
<211> 2362
<212> DNA
<213> Homo Sapien

<400> 194
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P1618P2C3 sequence listing.txt

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cgttgctgct gttgctgttgc ctgctgctgc cgccgcgcgtgc 150
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ctgtactatt cccttttga atggtttcat ccgctttcc ttgaggatga 650
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ttctgttagtttttgcgatggaccat 1150
tcaatggaga agctattttat gaaacctata cctggcgatc ccagaatgac 1200
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ctatgccatt tttcttaat gccccacatc aggacagctg ttccttggcc 1300
atccccaaagc tattctgggg gcaacagagg tgaaactact gggccatgg 1350
cagccactta actggatttc ttggagcaa aatggcatta tggttagact 1400
gccacagcta accattcatc agatgccgtg taaatggggc tggctctag 1450
cccttaactaa tgtgatctaa agtgcagcag agtggctgat gctgcaagtt 1500
atgtcttaagg ctaggaacta tcaggtgtct ataattgttag cacatggaga 1550
aagcaatgta aactggataa gaaaatttatt tggcagttca gccctttccc 1600

P1618P2C3 sequence listing.txt

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ccagtgcact ttgccattaa agtctcttca cattgattt gttccatgtg 1700
tgactcagag gtgagaattt tttcacatta tagtagcaag gaattgggtgg 1750
tattatggac cgaactgaaa attttatgtt gaagccatat cccccatgtat 1800
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gctagtcaat tttttttgt gccaacatca tagagtgtat ttacaaaatc 1900
ctagatggca tagcctacta cacaccta atgtatggta tagactgtt 1950
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gtaacagtgg tatttgata tcgaaacata tggaaacata gagaaggtac 2050
agtaaaaata ctgtaaaata aatggtcac ctgtataggg cacttaccac 2100
gaatggagct tacaggactg gaagttgctc tgggtgagtc agtgagtgaa 2150
tgtgaaggcc taggacatta ttgaacactg ccagacgtta taaatactgt 2200
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ataaaattaac ataagtgtac tgtaacttta caaacgtttt aatttttaaa 2300
accttttgg ctctttgttataacactta gcttaaaaaca taaaactcatt 2350
gtgcaaatgt aa 2362

<210> 195

<211> 467

<212> PRT

<213> Homo Sapien

<400> 195

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Leu Leu Leu Leu Leu Pro Pro Pro Pro Cys Pro Ala His Ser
20 25 30

Ala Thr Arg Phe Asp Pro Thr Trp Glu Ser Leu Asp Ala Arg Gln
35 40 45

Leu Pro Ala Trp Phe Asp Gln Ala Lys Phe Gly Ile Phe Ile His
50 55 60

Trp Gly Val Phe Ser Val Pro Ser Phe Gly Ser Glu Trp Phe Trp
65 70 75

Trp Tyr Trp Gln Lys Glu Lys Ile Pro Lys Tyr Val Glu Phe Met
80 85 90

Lys Asp Asn Tyr Pro Pro Ser Phe Lys Tyr Glu Asp Phe Gly Pro
95 100 105

Leu Phe Thr Ala Lys Phe Phe Asn Ala Asn Gln Trp Ala Asp Ile
110 115 120

Phe Gln Ala Ser Gly Ala Lys Tyr Ile Val Leu Thr Ser Lys His
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P1618P2C3 sequence listing.txt

125

130

135

His Glu Gly Phe Thr Leu Trp Gly Ser Glu Tyr Ser Trp Asn Trp
 140 145 150
 Asn Ala Ile Asp Glu Gly Pro Lys Arg Asp Ile Val Lys Glu Leu
 155 160 165
 Glu Val Ala Ile Arg Asn Arg Thr Asp Leu Arg Phe Gly Leu Tyr
 170 175 180
 Tyr Ser Leu Phe Glu Trp Phe His Pro Leu Phe Leu Glu Asp Glu
 185 190 195
 Ser Ser Ser Phe His Lys Arg Gln Phe Pro Val Ser Lys Thr Leu
 200 205 210
 Pro Glu Leu Tyr Glu Leu Val Asn Asn Tyr Gln Pro Glu Val Leu
 215 220 225
 Trp Ser Asp Gly Asp Gly Gly Ala Pro Asp Gln Tyr Trp Asn Ser
 230 235 240
 Thr Gly Phe Leu Ala Trp Leu Tyr Asn Glu Ser Pro Val Arg Gly
 245 250 255
 Thr Val Val Thr Asn Asp Arg Trp Gly Ala Gly Ser Ile Cys Lys
 260 265 270
 His Gly Gly Phe Tyr Thr Cys Ser Asp Arg Tyr Asn Pro Gly His
 275 280 285
 Leu Leu Pro His Lys Trp Glu Asn Cys Met Thr Ile Asp Lys Leu
 290 295 300
 Ser Trp Gly Tyr Arg Arg Glu Ala Gly Ile Ser Asp Tyr Leu Thr
 305 310 315
 Ile Glu Glu Leu Val Lys Gln Leu Val Glu Thr Val Ser Cys Gly
 320 325 330
 Gly Asn Leu Leu Met Asn Ile Gly Pro Thr Leu Asp Gly Thr Ile
 335 340 345
 Ser Val Val Phe Glu Glu Arg Leu Arg Gln Val Gly Ser Trp Leu
 350 355 360
 Lys Val Asn Gly Glu Ala Ile Tyr Glu Thr Tyr Thr Trp Arg Ser
 365 370 375
 Gln Asn Asp Thr Val Thr Pro Asp Val Trp Tyr Thr Ser Lys Pro
 380 385 390
 Lys Glu Lys Leu Val Tyr Ala Ile Phe Leu Lys Trp Pro Thr Ser
 395 400 405
 Gly Gln Leu Phe Leu Gly His Pro Lys Ala Ile Leu Gly Ala Thr
 410 415 420
 Glu Val Lys Leu Leu Gly His Gly Gln Pro Leu Asn Trp Ile Ser
 425 430 435
 Leu Glu Gln Asn Gly Ile Met Val Glu Leu Pro Gln Leu Thr Ile

440 P1618P2C3 sequence listing.txt
445 450

His Gln Met Pro Cys Lys Trp Gly Trp Ala Leu Ala Leu Thr Asn
455 460 465

val Ile

<210> 196
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 196
tggttgacc aggccaagtt cgg 23

<210> 197
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 197
ggattcatcc tcaaggaaga gcgg 24

<210> 198
<211> 24
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 198
aacttgcagc atcagccact ctgc 24

<210> 199
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 199
ttccgtgccc agttcggt a cgagtggtt ctgggttat tggca 45

<210> 200
<211> 2372
<212> DNA
<213> Homo Sapien

<400> 200
agcaggaaa tccggatgtc tcggttatga agtggagcag tgagtgtgag 50
cctcaacata gttccagaac tctccatccg gactagttat tgagcatctg 100
cctctcatat caccagtggc catctgaggt gttccctgg ctctgaaggg 150

P1618P2C3 sequence listing.txt

gtaggcacga tggccaggtg cttcagcctg gtgttgcttc tcacttccat 200
ctggaccacg aggctcctgg tccaaggctc tttgcgtgca gaagagcttt 250
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gcgaaccagc agctgaattt cacagaagct aaggaggcct gtaggctgct 350
gggactaagt ttggccggca aggaccaagt tgaaacagcc ttgaaagcta 400
gcttgaaac ttgcagctat ggctggggtt gagatggatt cgtggtcatc 450
tcttaggatta gcccaaaccc caagtgtggg aaaaatgggg tgggtgtcct 500
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cagtgacagt acctactcg 700
tggcatcccc ttactctaca atacctgcc 700
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acggctctgc tagtgcttgc tctcctcttc 900
tttggtgctg cagctggct 950
tggattttgc tatgtcaaaa ggtatgtgaa 950
ggccttccct tttacaaaca agaatcagca gaaggaaatg atcgaaacca 1000
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atcaaaaggc ccaaagaacc aaagaagaaa gtccaccc 1250
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tcctatcctc ctaccc 1350
gtcctaataa tatcccactg 1400
ggagaaagga gtttgcaaa gtcaaggac ctaaaacatc tcatcagtat 1450
ccagtggtaa aaaggcc 1500
tggctgtctg aggctaggtg gttgaaagc 1500
caaggagtca ctgagaccaa ggcttctt actgattccg cagctcagac 1550
ccttcttca gctctgaaag agaaacacgt atcccaccc 1600
acatgtcctt 1600
ctgagcc 1650
ggc 1650
taagagcaaa agaatggcag aaaagtttag cccctgaaag 1650
ccatggagat tctcataact tgagacctaa tctctgtaaa gctaaaataa 1700

P1618P2C3 sequence listing.txt
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taaacacaga cagggctcaa gtgtttctc tgaacacatt gagttggaaat 1800
cactgtttag aacacacaca cttaactttt ctggtctcta ccactgctga 1850
tattttctct aggaaatata cttaacaag taacaaaaat aaaaactctt 1900
ataaaattct attttatct gagttacaga aatgattact aaggaagatt 1950
actcagtaat ttgtttaaaa agtaataaaa ttcaacaaac atttgctgaa 2000
tagctactat atgtcaagtg ctgtgcaagg tattacactc tgtaattgaa 2050
tattattcct caaaaaattt cacatagtag aacgctatct ggaaagctat 2100
tttttcagt tttgatattt ctagttatc tacttccaaa ctaattttta 2150
ttttgctga gactaatctt attcattttc tctaatatgg caaccattat 2200
aaccttaatt tattattaac atacctaaga agtacattgt tacctctata 2250
taccaaagca cattttaaaa gtgccattaa caaatgtatc actagccctc 2300
cttttccaa caagaaggaa ctgagagatg cagaaatatt tgtgacaaaa 2350
aattaaagca ttttagaaaac tt 2372

<210> 201

<211> 322

<212> PRT

<213> Homo Sapien

<400> 201

Met Ala Arg Cys Phe Ser Leu Val Leu Leu Leu Thr Ser Ile Trp
1 5 10 15

Thr Thr Arg Leu Leu Val Gln Gly Ser Leu Arg Ala Glu Glu Leu
20 25 30

Ser Ile Gln Val Ser Cys Arg Ile Met Gly Ile Thr Leu Val Ser
35 40 45

Lys Lys Ala Asn Gln Gln Leu Asn Phe Thr Glu Ala Lys Glu Ala
50 55 60

Cys Arg Leu Leu Gly Leu Ser Leu Ala Gly Lys Asp Gln Val Glu
65 70 75

Thr Ala Leu Lys Ala Ser Phe Glu Thr Cys Ser Tyr Gly Trp Val
80 85 90

Gly Asp Gly Phe Val Val Ile Ser Arg Ile Ser Pro Asn Pro Lys
95 100 105

Cys Gly Lys Asn Gly Val Gly Val Leu Ile Trp Lys Val Pro Val
110 115 120

Ser Arg Gln Phe Ala Ala Tyr Cys Tyr Asn Ser Ser Asp Thr Trp
125 130 135

Thr Asn Ser Cys Ile Pro Glu Ile Ile Thr Thr Lys Asp Pro Ile
140 145 150

P1618P2C3 sequence listing.txt

Phe Asn Thr Gln Thr Ala Thr Gln Thr Thr Glu Phe Ile Val Ser
155 160 165
Asp Ser Thr Tyr Ser Val Ala Ser Pro Tyr Ser Thr Ile Pro Ala
170 175 180
Pro Thr Thr Thr Pro Pro Ala Pro Ala Ser Thr Ser Ile Pro Arg
185 190 195
Arg Lys Lys Leu Ile Cys Val Thr Glu Val Phe Met Glu Thr Ser
200 205 210
Thr Met Ser Thr Glu Thr Glu Pro Phe Val Glu Asn Lys Ala Ala
215 220 225
Phe Lys Asn Glu Ala Ala Gly Phe Gly Gly Val Pro Thr Ala Leu
230 235 240
Leu Val Leu Ala Leu Leu Phe Phe Gly Ala Ala Ala Gly Leu Gly
245 250 255
Phe Cys Tyr Val Lys Arg Tyr Val Lys Ala Phe Pro Phe Thr Asn
260 265 270
Lys Asn Gln Gln Lys Glu Met Ile Glu Thr Lys Val Val Lys Glu
275 280 285
Glu Lys Ala Asn Asp Ser Asn Pro Asn Glu Glu Ser Lys Lys Thr
290 295 300
Asp Lys Asn Pro Glu Glu Ser Lys Ser Pro Ser Lys Thr Thr Val
305 310 315
Arg Cys Leu Glu Ala Glu Val
320

<210> 202

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 202

gagctttcca tccaggtgtc atgc 24

<210> 203

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 203

gtcagtgaca gtacctactc gg 22

<210> 204

<211> 24

<212> DNA

<213> Artificial Sequence

P1618P2C3 sequence listing.txt

<220>
<223> Synthetic Oligonucleotide Probe

<400> 204
tggagcagga ggagtagtag tagg 24

<210> 205
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 205
aggaggcctg taggctgctg ggactaagtt tggccggcaa ggaccaagtt 50

<210> 206
<211> 1620
<212> DNA
<213> Homo Sapien

<220>
<221> unsure
<222> 973, 977, 996, 1003
<223> unknown base

<400> 206
agatggcggt cttggcacct ctaattgctc tcgtgtattc ggtgccgcga 50
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tgctgccttc ctactcgtga ggaaactgcc gccgctctgc cacggctcgc 150
ccaccacaacg cgaagacggt aaccctgtg actttgactg gagagaagtg 200
gagatcctga tgtttctcag tgccattgtg atgatgaaga accgcagatc 250
catcactgtg gagcaacata taggcaacat tttcatgttt agtaaagtgg 300
ccaacacaat tctttcttc cgcttggata ttgcgtatgg cctactttac 350
atcacactct gcatagtgtt cctgatgacg tgcaaaacccc ccctatatat 400
gggcctgag tataatcaagt acttcaatga taaaaccatt gatgaggaac 450
tagaacggga caagagggtc acttggattg tggagttctt tgccaattgg 500
tctaattgact gccaatcatt tgccccatc tatgctgacc tctcccttaa 550
atacaactgt acagggtctaa attttggaa ggtggatgtt ggacgctata 600
ctgatgttag tacgcggtac aaagttagca catcaccctt caccaggcaa 650
ctccctaccc tgatcctgtt ccaaggtggc aaggaggcaa tgcggcggcc 700
acagattgac aagaaaggac gggctgtctc atggacccctc tctgaggaga 750
atgtgatccg agaatttaac ttaaatgagc tataccagcg ggccaagaaa 800
ctatcaaagg ctggagacaa tatccctgag gagcagcctg tggcttcaac 850

P1618P2C3 sequence listing.txt

ccccaccaca gtgtcagatg gggaaaacaa gaaggataaa taagatccctc 900
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caagcctgag gctgcagcct ttnattnatg tttcccttt ggctgngact 1000
ggntggggca gcatgcagct tctgatTTTA aagaggcatc tagggaattg 1050
tcaggcaccc tacaggaagg cctgccatgc tgtggccaac tgTTTcactg 1100
gagcaagaaa gagatctcat aggacggagg gggaaatggt ttcccTccaa 1150
gcttgggtca gtgtgttaac tgcttatcag ctattcagac atctccatgg 1200
tttctccatg aaactctgtg gtttcatcat tccttcttag ttgacctgca 1250
cagcttgggt agacctagat ttaaccctaa ggtaagatgc tggggatAG 1300
aacgctaaga atttcccccc aaggactctt gcttccttaa gcccttctgg 1350
cttcgttat ggtcttcatt aaaagtataa gcctaacttt gtcgctagtc 1400
ctaaggagaa accttaacc acaaagtTTT tatcattgaa gacaatattg 1450
aacaaccccc tattttgtgg ggattgagaa ggggtgaata gaggctttag 1500
actttccctt gtgtggtagg acttggagga gaaatcccct ggactttcac 1550
taaccctctg acataactccc cacacccagt tgatggctt ccgtaataaa 1600
aagattggga tttccttttg 1620

<210> 207

<211> 296

<212> PRT

<213> Homo Sapien

<400> 207

Met Ala Val Leu Ala Pro Leu Ile Ala Leu Val Tyr Ser Val Pro
1 5 10 15

Arg Leu Ser Arg Trp Leu Ala Gln Pro Tyr Tyr Leu Leu Ser Ala
20 25 30

Leu Leu Ser Ala Ala Phe Leu Leu Val Arg Lys Leu Pro Pro Leu
35 40 45

Cys His Gly Leu Pro Thr Gln Arg Glu Asp Gly Asn Pro Cys Asp
50 55 60

Phe Asp Trp Arg Glu Val Glu Ile Leu Met Phe Leu Ser Ala Ile
65 70 75

Val Met Met Lys Asn Arg Arg Ser Ile Thr Val Glu Gln His Ile
80 85 90

Gly Asn Ile Phe Met Phe Ser Lys Val Ala Asn Thr Ile Leu Phe
95 100 105

Phe Arg Leu Asp Ile Arg Met Gly Leu Leu Tyr Ile Thr Leu Cys
110 115 120

Ile Val Phe Leu Met Thr Cys Lys Pro Pro Leu Tyr Met Gly Pro
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P1618P2C3 sequence listing.txt

125		130		135										
Glu	Tyr	Ile	Lys	Tyr	Phe	Asn	Asp	Lys	Thr	Ile	Asp	Glu	Glu	Leu
				140					145					150
Glu	Arg	Asp	Lys	Arg	val	Thr	Trp	Ile	val	Glu	Phe	Phe	Ala	Asn
				155					160					165
Trp	Ser	Asn	Asp	Cys	Gln	Ser	Phe	Ala	Pro	Ile	Tyr	Ala	Asp	Leu
				170					175					180
Ser	Leu	Lys	Tyr	Asn	Cys	Thr	Gly	Leu	Asn	Phe	Gly	Lys	Val	Asp
				185					190					195
val	Gly	Arg	Tyr	Thr	Asp	val	Ser	Thr	Arg	Tyr	Lys	Val	Ser	Thr
				200					205					210
Ser	Pro	Leu	Thr	Lys	Gln	Leu	Pro	Thr	Leu	Ile	Leu	Phe	Gln	Gly
				215					220					225
Gly	Lys	Glu	Ala	Met	Arg	Arg	Pro	Gln	Ile	Asp	Lys	Lys	Gly	Arg
				230					235					240
Ala	Val	Ser	Trp	Thr	Phe	Ser	Glu	Glu	Asn	val	Ile	Arg	Glu	Phe
				245					250					255
Asn	Leu	Asn	Glu	Leu	Tyr	Gln	Arg	Ala	Lys	Lys	Leu	Ser	Lys	Ala
				260					265					270
Gly	Asp	Asn	Ile	Pro	Glu	Glu	Gln	Pro	Val	Ala	Ser	Thr	Pro	Thr
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Thr	val	Ser	Asp	Gly	Glu	Asn	Lys	Lys	Asp	Lys				
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<210> 208

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 208

gcttggatat tcgcatgggc ctac 24

<210> 209

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 209

tggagacaat atccctgagg 20

<210> 210

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

P1618P2C3 sequence listing.txt

<223> Synthetic Oligonucleotide Probe

<400> 210
aacagttggc cacagcatgg cagg 24

<210> 211
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 211
ccattgatga ggaactagaa cgggacaaga gggtcaactg gattgtggag 50

<210> 212
<211> 1985
<212> DNA
<213> Homo Sapien

<400> 212
ggacagctcg cggcccccga gagctctagc cgtcgaggag ctgcctgggg 50
acgtttgcggcccccga gcctggcccg ggtcacccctg gcatgaggag 100
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gtggagacac ccgaggagac cctgttcacc taccaagggg ccagtgttat 300
cctgcccctgc cgctaccgct acgagccggc cctggcttc ccgcggcgtg 350
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ggccctggaa agttccatgg cctggaccgc tgcgacgctg gctggctggc 1050

P1618P2C3 sequence listing.txt

agatggcagc gtccgctacc ctgtggttca cccgcacccct aactgtgggc 1100
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aggggcccctc aggtgtgtgt actttggaca ataaatggtg ctatgactgc 1850
cttccgccaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1900
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1950
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa 1985

<210> 213
<211> 360
<212> PRT
<213> Homo Sapien

<400> 213
Met Gly Leu Leu Leu Leu Val Pro Leu Leu Leu Pro Gly Ser
1 5 10 15
Tyr Gly Leu Pro Phe Tyr Asn Gly Phe Tyr Tyr Ser Asn Ser Ala
20 25 30
Asn Asp Gln Asn Leu Gly Asn Gly His Gly Lys Asp Leu Leu Asn
35 40 45
Gly Val Lys Leu Val Val Glu Thr Pro Glu Glu Thr Leu Phe Thr
50 55 60
Tyr Gln Gly Ala Ser Val Ile Leu Pro Cys Arg Tyr Arg Tyr Glu
65 70 75
Pro Ala Leu Val Ser Pro Arg Arg Val Arg Val Lys Trp Trp Lys
80 85 90

P1618P2C3 sequence listing.txt

Leu Ser Glu Asn Gly Ala Pro Glu Lys Asp Val Leu Val Ala Ile
95 100 105

Gly Leu Arg His Arg Ser Phe Gly Asp Tyr Gln Gly Arg Val His
110 115 120

Leu Arg Gln Asp Lys Glu His Asp Val Ser Leu Glu Ile Gln Asp
125 130 135

Leu Arg Leu Glu Asp Tyr Gly Arg Tyr Arg Cys Glu Val Ile Asp
140 145 150

Gly Leu Glu Asp Glu Ser Gly Leu Val Glu Leu Glu Leu Arg Gly
155 160 165

Val Val Phe Pro Tyr Gln Ser Pro Asn Gly Arg Tyr Gln Phe Asn
170 175 180

Phe His Glu Gly Gln Gln Val Cys Ala Glu Gln Ala Ala Val Val
185 190 195

Ala Ser Phe Glu Gln Leu Phe Arg Ala Trp Glu Glu Gly Leu Asp
200 205 210

Trp Cys Asn Ala Gly Trp Leu Gln Asp Ala Thr Val Gln Tyr Pro
215 220 225

Ile Met Leu Pro Arg Gln Pro Cys Gly Gly Pro Gly Leu Ala Pro
230 235 240

Gly Val Arg Ser Tyr Gly Pro Arg His Arg Arg Leu His Arg Tyr
245 250 255

Asp Val Phe Cys Phe Ala Thr Ala Leu Lys Gly Arg Val Tyr Tyr
260 265 270

Leu Glu His Pro Glu Lys Leu Thr Leu Thr Glu Ala Arg Glu Ala
275 280 285

Cys Gln Glu Asp Asp Ala Thr Ile Ala Lys Val Gly Gln Leu Phe
290 295 300

Ala Ala Trp Lys Phe His Gly Leu Asp Arg Cys Asp Ala Gly Trp
305 310 315

Leu Ala Asp Gly Ser Val Arg Tyr Pro Val Val His Pro His Pro
320 325 330

Asn Cys Gly Pro Pro Glu Pro Gly Val Arg Ser Phe Gly Phe Pro
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Asp Pro Gln Ser Arg Leu Tyr Gly Val Tyr Cys Tyr Arg Gln His
350 355 360

<210> 214

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Probe

<400> 214

P1618P2C3 sequence listing.txt

tgcttcgcta ctgccctc 18
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<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 215
ttcccttgcg ggttggag 18

<210> 216
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 216
agggctggaa gccagttc 18

<210> 217
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 217
agccagttag gaaatgcg 18

<210> 218
<211> 24
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 218
tgtccaaagt acacacacacct gagg 24

<210> 219
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 219
gatgccacga tcgccaaggt gggacagctc tttgccgcct ggaag 45

<210> 220
<211> 1503
<212> DNA
<213> Homo Sapien

<400> 220

P1618P2C3 sequence listing.txt

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cagttctgct gcttctgttg ctactgaggc acggggccca ggggaagcca 100
tccccagacg caggccctca tggccagggg agggtgcacc aggcggcccc 150
cctgagcgac gctccccatg atgacgccc a cggaaacttc cagtacgacc 200
atgaggctt cctggacgg gaagtggcca aggaattcga ccaactcacc 250
ccagaggaaa gccaggcccg tctggggcgg atcgtggacc gcatggaccg 300
cgcggggac ggcgacggct ggggtgcgt ggccgagctt cgcgcgtgga 350
tcgcgcacac gcagcagcgg cacatacggg actcggtag cgcggcctgg 400
gacacgtacg acacggaccg cgacggcgt gtgggttggg aggagctgcg 450
caacgccacc tatggccact acgcgcccgg tgaagaattt catgacgtgg 500
aggatgcaga gacctacaaa aagatgctgg ctcggacga gcggcggttc 550
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aaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1500
aaa 1503

<210> 221

P1618P2C3 sequence listing.txt

<211> 328
<212> PRT
<213> Homo Sapien

<400> 221
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20 25 30
Gln Gly Arg Val His Gln Ala Ala Pro Leu Ser Asp Ala Pro His
35 40 45
Asp Asp Ala His Gly Asn Phe Gln Tyr Asp His Glu Ala Phe Leu
50 55 60
Gly Arg Glu Val Ala Lys Glu Phe Asp Gln Leu Thr Pro Glu Glu
65 70 75
Ser Gln Ala Arg Leu Gly Arg Ile Val Asp Arg Met Asp Arg Ala
80 85 90
Gly Asp Gly Asp Gly Trp Val Ser Leu Ala Glu Leu Arg Ala Trp
95 100 105
Ile Ala His Thr Gln Gln Arg His Ile Arg Asp Ser Val Ser Ala
110 115 120
Ala Trp Asp Thr Tyr Asp Thr Asp Arg Asp Gly Arg Val Gly Trp
125 130 135
Glu Glu Leu Arg Asn Ala Thr Tyr Gly His Tyr Ala Pro Gly Glu
140 145 150
Glu Phe His Asp Val Glu Asp Ala Glu Thr Tyr Lys Lys Met Leu
155 160 165
Ala Arg Asp Glu Arg Arg Phe Arg Val Ala Asp Gln Asp Gly Asp
170 175 180
Ser Met Ala Thr Arg Glu Glu Leu Thr Ala Phe Leu His Pro Glu
185 190 195
Glu Phe Pro His Met Arg Asp Ile Val Ile Ala Glu Thr Leu Glu
200 205 210
Asp Leu Asp Arg Asn Lys Asp Gly Tyr Val Gln Val Glu Glu Tyr
215 220 225
Ile Ala Asp Leu Tyr Ser Ala Glu Pro Gly Glu Glu Glu Pro Ala
230 235 240
Trp Val Gln Thr Glu Arg Gln Gln Phe Arg Asp Phe Arg Asp Leu
245 250 255
Asn Lys Asp Gly His Leu Asp Gly Ser Glu Val Gly His Trp Val
260 265 270
Leu Pro Pro Ala Gln Asp Gln Pro Leu Val Glu Ala Asn His Leu
275 280 285
Leu His Glu Ser Asp Thr Asp Lys Asp Gly Arg Leu Ser Lys Ala

P1618P2C3 sequence listing.txt
290 295 300

Glu Ile Leu Gly Asn Trp Asn Met Phe Val Gly Ser Gln Ala Thr
305 310 315

Asn Tyr Gly Glu Asp Leu Thr Arg His His Asp Glu Leu
320 325

<210> 222

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Probe

<400> 222

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<210> 223

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Probe

<400> 223

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<210> 224

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Probe

<400> 224

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<210> 225

<211> 44

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Probe

<400> 225

ccccccctgag cgacgctccc ccatgatgac gcccacggga actt 44

<210> 226

<211> 2403

<212> DNA

<213> Homo Sapien

<400> 226

ggggccttgc cttccgcact cgggcgcagc cgggtggatc tcgagcaggt 50

gcggagcccc gggcgccgg cgcgggtgcg agggatccct gacgcctctg 100

tccctgtttc tttgtcgctc ccagcctgtc tgtcgtcggt ttggcgcccc 150

P1618P2C3 sequence listing.txt

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gcggggctct gaggaggta cgcgccccc ctccgcacc ctggccttgc 350
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tgggggttgtt atttatttgc ggttggcatt ctgtatgcatt cgaggaagca 1250
ggcattgtgg ccagagagtt tgggtgtcaat gtatttatag tttctgtggc 1300
caagcctatc cctgaagaac tggggatggt tcaggatgtc acatttttttgc 1350
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tggtttggca ccacaaaata cgtaaagcct ctggatcaga agctgtgcac 1450
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tggtgccaaat atagctgtgt tacagtttac ttatgatcag cgacggagt 1650
tcagtttccat tgactatagc accaaagaga atgtccatgc tgtcatcaga 1700

P1618P2C3 sequence listing.txt

aacatccgct atatgagtgg tggAACAGCT actggtgatg ccatttcctt 1750
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tcctagtaat tgtcacagat gggcagtccct atgatgatgt ccaaggccct 1850
gcagctgctg cacatgatgc aggaatcact atcttcctcg ttggtgtggc 1900
ttgggcacct ctggatgacc tgaaagatat ggcttctaaa ccgaaggagt 1950
ctcacgctt cttcacaaga gagttcacag gattagaacc aattgtttct 2000
gatgtcatca gaggcatttg tagagatttc tttagaatccc agcaataatg 2050
gtaacatttt gacaactgaa agaaaaagta caagggatc cagtgtgtaa 2100
attgtattct cataataactg aaatgcttta gcatactaga atcagataca 2150
aaactattaa gtatgtcaac accatTTAG gcaaataagc actcctttaa 2200
agccgctgcc ttctggttac aatttacagt gtactttgtt aaaacactg 2250
ctgaggcttc ataatcatgg ctcttagaaa ctcagggaaag aggagataat 2300
gtggattaaa accttaagag ttcttaaccat gcctactaaa tgtacagata 2350
tgcaaattcc atagctcaat aaaagaatct gatacttaga ccaaaaaaaaa 2400
aaa 2403

<210> 227

<211> 550

<212> PRT

<213> Homo Sapien

<400> 227

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				20				25					30	
Ala	Ile	Thr	Cys	Phe	Thr	Arg	Gly	Leu	Asp	Ile	Arg	Lys	Glu	Lys
			35					40				45		
Ala	Asp	Val	Leu	Cys	Pro	Gly	Gly	Cys	Pro	Leu	Glu	Glu	Phe	Ser
			50					55				60		
Val	Tyr	Gly	Asn	Ile	Val	Tyr	Ala	Ser	Val	Ser	Ser	Ile	Cys	Gly
			65					70				75		
Ala	Ala	Val	His	Arg	Gly	Val	Ile	Ser	Asn	Ser	Gly	Gly	Pro	Val
			80					85				90		
Arg	Val	Tyr	Ser	Leu	Pro	Gly	Arg	Glu	Asn	Tyr	Ser	Ser	Val	Asp
			95					100				105		
Ala	Asn	Gly	Ile	Gln	Ser	Gln	Met	Leu	Ser	Arg	Trp	Ser	Ala	Ser
			110					115				120		
Phe	Thr	Val	Thr	Lys	Gly	Lys	Ser	Ser	Thr	Gln	Glu	Ala	Thr	Gly
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P1618P2C3 sequence listing.txt

Gln Ala Val Ser Thr Ala His Pro Pro Thr Gly Lys Arg Leu Lys
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Lys Thr Pro Glu Lys Lys Thr Gly Asn Lys Asp Cys Lys Ala Asp
155 160 165
Ile Ala Phe Leu Ile Asp Gly Ser Phe Asn Ile Gly Gln Arg Arg
170 175 180
Phe Asn Leu Gln Lys Asn Phe Val Gly Lys Val Ala Leu Met Leu
185 190 195
Gly Ile Gly Thr Glu Gly Pro His Val Gly Leu Val Gln Ala Ser
200 205 210
Glu His Pro Lys Ile Glu Phe Tyr Leu Lys Asn Phe Thr Ser Ala
215 220 225
Lys Asp Val Leu Phe Ala Ile Lys Glu Val Gly Phe Arg Gly Gly
230 235 240
Asn Ser Asn Thr Gly Lys Ala Leu Lys His Thr Ala Gln Lys Phe
245 250 255
Phe Thr Val Asp Ala Gly Val Arg Lys Gly Ile Pro Lys Val Val
260 265 270
Val Val Phe Ile Asp Gly Trp Pro Ser Asp Asp Ile Glu Glu Ala
275 280 285
Gly Ile Val Ala Arg Glu Phe Gly Val Asn Val Phe Ile Val Ser
290 295 300
Val Ala Lys Pro Ile Pro Glu Glu Leu Gly Met Val Gln Asp Val
305 310 315
Thr Phe Val Asp Lys Ala Val Cys Arg Asn Asn Gly Phe Phe Ser
320 325 330
Tyr His Met Pro Asn Trp Phe Gly Thr Thr Lys Tyr Val Lys Pro
335 340 345
Leu Val Gln Lys Leu Cys Thr His Glu Gln Met Met Cys Ser Lys
350 355 360
Thr Cys Tyr Asn Ser Val Asn Ile Ala Phe Leu Ile Asp Gly Ser
365 370 375
Ser Ser Val Gly Asp Ser Asn Phe Arg Leu Met Leu Glu Phe Val
380 385 390
Ser Asn Ile Ala Lys Thr Phe Glu Ile Ser Asp Ile Gly Ala Lys
395 400 405
Ile Ala Ala Val Gln Phe Thr Tyr Asp Gln Arg Thr Glu Phe Ser
410 415 420
Phe Thr Asp Tyr Ser Thr Lys Glu Asn Val Leu Ala Val Ile Arg
425 430 435
Asn Ile Arg Tyr Met Ser Gly Gly Thr Ala Thr Gly Asp Ala Ile
440 445 450

P1618P2C3 sequence listing.txt
Ser Phe Thr Val Arg Asn Val Phe Gly Pro Ile Arg Glu Ser Pro
455 460 465
Asn Lys Asn Phe Leu Val Ile Val Thr Asp Gly Gln Ser Tyr Asp
470 475 480
Asp Val Gln Gly Pro Ala Ala Ala Ala His Asp Ala Gly Ile Thr
485 490 495
Ile Phe Ser Val Gly Val Ala Trp Ala Pro Leu Asp Asp Leu Lys
500 505 510
Asp Met Ala Ser Lys Pro Lys Glu Ser His Ala Phe Phe Thr Arg
515 520 525
Glu Phe Thr Gly Leu Glu Pro Ile Val Ser Asp Val Ile Arg Gly
530 535 540
Ile Cys Arg Asp Phe Leu Glu Ser Gln Gln
545 550

<210> 228

<211> 18

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 228

tggtctcgca caccgatc 18

<210> 229

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 229

ctgctgtcca caggggag 18

<210> 230

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 230

ccttgaagca tactgctc 18

<210> 231

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 231

P1618P2C3 sequence listing.txt

gagatagcaa tttccgcc 18
<210> 232
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 232
ttcctcaaga gggcagcc 18

<210> 233
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 233
cttggcacca atgtccgaga ttcc 24

<210> 234
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 234
gctctgagga aggtgacgcg cggggcctcc gaacccttgg ctttg 45

<210> 235
<211> 2586
<212> DNA
<213> Homo Sapien

<400> 235
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ccccgcagc ccggcgccct cccggcgaaa gcgagcagat ccagtccggc 100
ccgcagcgca actcggtcca gtcggggcg cggtgcggg cgcagagcg 150
agatgcagcg gcttggggcc accctgtgt gcctgtgtc ggcggcg 200
gtccccacgg ccccccgcgc cgcgtccgacg ggcacccgtt ctccagtcaa 250
gccccggcccg gctctcagct acccgcaaggaa ggaggccacc ctcaatgaga 300
tgttccgcga ggttggggaa ctgtatggagg acacgcagca caaattgcgc 350
agcgcgggtgg aagagatggaa ggcagaagaa gctgctgcta aagcatcatc 400
agaagtgaac ctggcaaact tacctcccag ctatcacaat gagaccaaca 450
cagacacgaa ggttggaaat aataccatcc atgtgcaccg agaaattcac 500
aagataacca acaaccagac tggacaaatg gtcttttag agacagttat 550

P1618P2C3 sequence listing.txt

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gtgctgtgga gaccagctgt gtgtctgggg tcactgcacc aaaatggcca 750
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gttctcacag tgtggggcag ccgtcccttct aatgaagaca atgatattga 2150

P1618P2C3 sequence listing.txt

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tcttaaagtt taaagttgca catgattgta taagcatgct ttctttgagt 2500
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cttcaactgc aaaaaaaaaaaaaaaa aaaaaaaaaaaaaaaa 2586

<210> 236

<211> 350

<212> PRT

<213> Homo Sapien

<400> 236

Met Gln Arg Leu Gly Ala Thr Leu Leu Cys Leu Leu Leu Ala Ala
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Ala Val Pro Thr Ala Pro Ala Pro Ala Pro Thr Ala Thr Ser Ala
20 25 30

Pro Val Lys Pro Gly Pro Ala Leu Ser Tyr Pro Gln Glu Glu Ala
35 40 45

Thr Leu Asn Glu Met Phe Arg Glu Val Glu Glu Leu Met Glu Asp
50 55 60

Thr Gln His Lys Leu Arg Ser Ala Val Glu Glu Met Glu Ala Glu
65 70 75

Glu Ala Ala Ala Lys Ala Ser Ser Glu Val Asn Leu Ala Asn Leu
80 85 90

Pro Pro Ser Tyr His Asn Glu Thr Asn Thr Asp Thr Lys Val Gly
95 100 105

Asn Asn Thr Ile His Val His Arg Glu Ile His Lys Ile Thr Asn
110 115 120

Asn Gln Thr Gly Gln Met Val Phe Ser Glu Thr Val Ile Thr Ser
125 130 135

Val Gly Asp Glu Glu Gly Arg Arg Ser His Glu Cys Ile Ile Asp
140 145 150

Glu Asp Cys Gly Pro Ser Met Tyr Cys Gln Phe Ala Ser Phe Gln
155 160 165

Tyr Thr Cys Gln Pro Cys Arg Gly Gln Arg Met Leu Cys Thr Arg
170 175 180

Asp Ser Glu Cys Cys Gly Asp Gln Leu Cys Val Trp Gly His Cys
185 190 195

P1618P2C3 sequence listing.txt

Thr Lys Met Ala Thr Arg Gly Ser Asn Gly Thr Ile Cys Asp Asn
200 205 210
Gln Arg Asp Cys Gln Pro Gly Leu Cys Cys Ala Phe Gln Arg Gly
215 220 225
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230 235 240
Cys His Asp Pro Ala Ser Arg Leu Leu Asp Leu Ile Thr Trp Glu
245 250 255
Leu Glu Pro Asp Gly Ala Leu Asp Arg Cys Pro Cys Ala Ser Gly
260 265 270
Leu Leu Cys Gln Pro His Ser His Ser Leu Val Tyr Val Cys Lys
275 280 285
Pro Thr Phe Val Gly Ser Arg Asp Gln Asp Gly Glu Ile Leu Leu
290 295 300
Pro Arg Glu Val Pro Asp Glu Tyr Glu Val Gly Ser Phe Met Glu
305 310 315
Glu Val Arg Gln Glu Leu Glu Asp Leu Glu Arg Ser Leu Thr Glu
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Gly Gly Glu Glu Ile
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<210> 237

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 237

ggagctgcac ccttgc 17

<210> 238

<211> 49

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 238

ggaggactgt gccaccatga gagactcttc aaacccaagg caaaattgg 49

<210> 239

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

P1618P2C3 sequence listing.txt

<400> 239
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<210> 240
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 240
ttggcagctt catggagg 18

<210> 241
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 241
cctgggcaaa aatgcaac 18

<210> 242
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 242
ctccagctcc tggcgcacct cctc 24

<210> 243
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 243
ggctctcagc taccgcgcag gagcgaggcc accctaatt agatg 45

<210> 244
<211> 3679
<212> DNA
<213> Homo Sapien

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cacacataca cttccctctc cttcactgaa gactcacagt cactcactct 200
gtgagcaggt catagaaaag gacactaaag ctttaaggac aggccctggcc 250

P1618P2C3 sequence listing.txt

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ccaggcacgg tgactcacac ctgtaatccc agcatttgg gagaccgagg 350
tgagcagatc acttgaggtc aggagttcga gaccagcctg gccaaatgg 400
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ccagggctgc ccctgatggg gcctggcaat gactgagcag gcccagcccc 700
agaggacaag gaagagaagg catattgagg agggcaagaa gtgacgcccc 750
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gctgaccctt accctgcaaa acacaaagag caggactcca gactccctt 850
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tagaggagaa ccagctgacc cggctggagg accacagctt tgcagggctg 1300
gccagcctac aggaactcta tctcaaccac aaccagctt accgcatcgc 1350
ccccagggcc ttttctggcc tcagcaactt gctgcggctg cacctcaact 1400
ccaacccctt gagggccatt gacagccgct ggtttggaaat gctgccccac 1450
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agcgggttagg gcccggggac tttgccaaca tgctgcacct taaggagctg 1750
ggactgaaca acatggagga gctggctcc atcgacaagt ttgcccctgg 1800

P1618P2C3 sequence listing.txt

gaacctcccc gagctgacca agctggacat caccaataac ccacggctgt 1850
ccttcattcca ccccccgcgc ttccaccacc tgccccagat ggagaccctc 1900
atgctcaaca acaacgctct cagtgccttg caccagcaga cggtggagtc 1950
cctgccccac ctgcaggagg taggtctcca cgccaacccc atccgctgtg 2000
actgtgtcat ccgctgggcc aatgccacgg gcacccgtgt ccgcttcatac 2050
gagccgcaat ccaccctgtg tgccggagcct ccggacctcc agcgccctccc 2100
ggtccgtgag gtgccttcc gggagatgac ggaccactgt ttgccttcata 2150
tctccccacg aagcttcccc ccaagcctcc aggttagccag tggagagagc 2200
atggtgctgc attgccgggc actggccgaa cccgaacccg agatctactg 2250
ggtaactcca gctggcttc gactgacacc tgcccatgca ggcaggaggt 2300
accgggtgta ccccggggg accctggagc tgccggagggt gacagcagaa 2350
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accattgtct caaaaattctt gaagctcagc ctgttctcag cagtagagaa 3050
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ctgccaggaa agggacatgg acccacgtgc ttgaggcctg gcagctggc 3150
caagacagat ggggcttgtt ggcctgggg gtgcttctgc agccttgaaa 3200
aagttgcctt tacctcctag ggtcacctct gctgccattc tgaggaacat 3250
ctccaaggaa caggagggac tttggctaga gcctcctgcc tcccccattt 3300
ctctctgccc agaggctcct gggcctggct tggctgtccc ctacctgtgt 3350
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P1618P2C3 sequence listing.txt

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ggcattccga agctgacttt ctataggcaa ttttgtacct ttgtggagaa 3600
atgtgtcacc tcccccaacc cgattcactc ttttctccctg ttttgtaaaa 3650
aataaaaaata aataataaca ataaaaaaaa 3679

<210> 245

<211> 713

<212> PRT

<213> Homo Sapien

<400> 245

Met Arg Leu Leu Val Ala Pro Leu Leu Leu Ala Trp Val Ala Gly
1 5 10 15

Ala Thr Ala Thr Val Pro Val Val Pro Trp His Val Pro Cys Pro
20 25 30

Pro Gln Cys Ala Cys Gln Ile Arg Pro Trp Tyr Thr Pro Arg Ser
35 40 45

Ser Tyr Arg Glu Ala Thr Thr Val Asp Cys Asn Asp Leu Phe Leu
50 55 60

Thr Ala Val Pro Pro Ala Leu Pro Ala Gly Thr Gln Thr Leu Leu
65 70 75

Leu Gln Ser Asn Ser Ile Val Arg Val Asp Gln Ser Glu Leu Gly
80 85 90

Tyr Leu Ala Asn Leu Thr Glu Leu Asp Leu Ser Gln Asn Ser Phe
95 100 105

Ser Asp Ala Arg Asp Cys Asp Phe His Ala Leu Pro Gln Leu Leu
110 115 120

Ser Leu His Leu Glu Glu Asn Gln Leu Thr Arg Leu Glu Asp His
125 130 135

Ser Phe Ala Gly Leu Ala Ser Leu Gln Glu Leu Tyr Leu Asn His
140 145 150

Asn Gln Leu Tyr Arg Ile Ala Pro Arg Ala Phe Ser Gly Leu Ser
155 160 165

Asn Leu Leu Arg Leu His Leu Asn Ser Asn Leu Leu Arg Ala Ile
170 175 180

Asp Ser Arg Trp Phe Glu Met Leu Pro Asn Leu Glu Ile Leu Met
185 190 195

Ile Gly Gly Asn Lys Val Asp Ala Ile Leu Asp Met Asn Phe Arg
200 205 210

Pro Leu Ala Asn Leu Arg Ser Leu Val Leu Ala Gly Met Asn Leu
215 220 225

P1618P2C3 sequence listing.txt

Arg Glu Ile Ser Asp Tyr Ala Leu Glu Gly Leu Gln Ser Leu Glu
230 235 240
Ser Leu Ser Phe Tyr Asp Asn Gln Leu Ala Arg Val Pro Arg Arg
245 250 255
Ala Leu Glu Gln Val Pro Gly Leu Lys Phe Leu Asp Leu Asn Lys
260 265 270
Asn Pro Leu Gln Arg Val Gly Pro Gly Asp Phe Ala Asn Met Leu
275 280 285
His Leu Lys Glu Leu Gly Leu Asn Asn Met Glu Glu Leu Val Ser
290 295 300
Ile Asp Lys Phe Ala Leu Val Asn Leu Pro Glu Leu Thr Lys Leu
305 310 315
Asp Ile Thr Asn Asn Pro Arg Leu Ser Phe Ile His Pro Arg Ala
320 325 330
Phe His His Leu Pro Gln Met Glu Thr Leu Met Leu Asn Asn Asn
335 340 345
Ala Leu Ser Ala Leu His Gln Gln Thr Val Glu Ser Leu Pro Asn
350 355 360
Leu Gln Glu Val Gly Leu His Gly Asn Pro Ile Arg Cys Asp Cys
365 370 375
Val Ile Arg Trp Ala Asn Ala Thr Gly Thr Arg Val Arg Phe Ile
380 385 390
Glu Pro Gln Ser Thr Leu Cys Ala Glu Pro Pro Asp Leu Gln Arg
395 400 405
Leu Pro Val Arg Glu Val Pro Phe Arg Glu Met Thr Asp His Cys
410 415 420
Leu Pro Leu Ile Ser Pro Arg Ser Phe Pro Pro Ser Leu Gln Val
425 430 435
Ala Ser Gly Glu Ser Met Val Leu His Cys Arg Ala Leu Ala Glu
440 445 450
Pro Glu Pro Glu Ile Tyr Trp Val Thr Pro Ala Gly Leu Arg Leu
455 460 465
Thr Pro Ala His Ala Gly Arg Arg Tyr Arg Val Tyr Pro Glu Gly
470 475 480
Thr Leu Glu Leu Arg Arg Val Thr Ala Glu Glu Ala Gly Leu Tyr
485 490 495
Thr Cys Val Ala Gln Asn Leu Val Gly Ala Asp Thr Lys Thr Val
500 505 510
Ser Val Val Val Gly Arg Ala Leu Leu Gln Pro Gly Arg Asp Glu
515 520 525
Gly Gln Gly Leu Glu Leu Arg Val Gln Glu Thr His Pro Tyr His
530 535 540

P1618P2C3 sequence listing.txt

Ile Leu Leu Ser Trp Val Thr Pro Pro Asn Thr Val Ser Thr Asn
545 550 555
Leu Thr Trp Ser Ser Ala Ser Ser Leu Arg Gly Gln Gly Ala Thr
560 565 570
Ala Leu Ala Arg Leu Pro Arg Gly Thr His Ser Tyr Asn Ile Thr
575 580 585
Arg Leu Leu Gln Ala Thr Glu Tyr Trp Ala Cys Leu Gln Val Ala
590 595 600
Phe Ala Asp Ala His Thr Gln Leu Ala Cys Val Trp Ala Arg Thr
605 610 615
Lys Glu Ala Thr Ser Cys His Arg Ala Leu Gly Asp Arg Pro Gly
620 625 630
Leu Ile Ala Ile Leu Ala Leu Ala Val Leu Leu Leu Ala Ala Gly
635 640 645
Leu Ala Ala His Leu Gly Thr Gly Gln Pro Arg Lys Gly Val Gly
650 655 660
Gly Arg Arg Pro Leu Pro Pro Ala Trp Ala Phe Trp Gly Trp Ser
665 670 675
Ala Pro Ser Val Arg Val Val Ser Ala Pro Leu Val Leu Pro Trp
680 685 690
Asn Pro Gly Arg Lys Leu Pro Arg Ser Ser Glu Gly Glu Thr Leu
695 700 705
Leu Pro Pro Leu Ser Gln Asn Ser
710

<210> 246

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 246

aacaaggtaa gatgccatcc tg 22

<210> 247

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 247

aaacttgtcg atggagacca gctc 24

<210> 248

<211> 45

<212> DNA

<213> Artificial Sequence

P1618P2C3 sequence listing.txt

<220>

<223> Synthetic Oligonucleotide Probe

<400> 248

aggggctgca aagcctggag agccttcct tctatgacaa ccagc 45

<210> 249

<211> 3401

<212> DNA

<213> Homo Sapien

<400> 249

gcaagccaag gcgctgtttg agaaggtgaa gaagttccgg acccatgtgg 50

aggagggggga cattgtgtac cgcccttaca tgccggcagac catcatcaag 100

gtgatcaagt tcatcctcat catctgctac accgtctact acgtgcacaa 150

catcaagttc gacgtggact gcaccgtgga cattgagagc ctgacggct 200

accgcaccta ccgctgtgcc cacccccctgg ccacactctt caagatcctg 250

gcgtccttct acatcagcct agtcatcttc tacggcctca tctgcatgta 300

cacactgtgg tggatgtac ggcgctccct caagaagtac tcgtttgagt 350

cgatccgtga ggagagcagc tacagcgaca tccccgacgt caagaacgac 400

ttcgccctca tgctgcacct cattgaccaa tacgaccgc tctactccaa 450

gcgcctcgcc gtcttcgtt cggaggtgag tgagaacaag ctgcggcagc 500

tgaacctcaa caacgagtgg acgctggaca agctccggca gcggctcacc 550

aagaacgcgc aggacaagct ggagctgcac ctgttcatgc tcagtggcat 600

ccctgacact gtgtttgacc tggtgagct ggaggtcctc aagctggagc 650

tgatccccga cgtgaccatc ccgcccagca ttgcccagct cacgggcctc 700

aaggagctgt ggctctacca cacagcggcc aagattgaag cgcctgcgt 750

ggccttcctg cgcgagaacc tgcgggcgt gcacatcaag ttcaccgaca 800

tcaaggagat cccgctgtgg atctatagcc tgaagacact ggaggagctg 850

cacctgacgg gcaacctgag cgccggagaac aaccgctaca tcgtcatgca 900

cgggctgcgg gagctcaaac gcctcaaggt gctgcggctc aagagcaacc 950

taagcaagct gccacaggtg gtcacagatg tgggcgtgca cctgcagaag 1000

ctgtccatca acaatgaggg caccaagctc atcgtcctca acagcctcaa 1050

gaagatggcg aacctgactg agctggagct gatccgctgc gacctggagc 1100

gcatccccca ctccatcttc agcctccaca acctgcagga gattgacctc 1150

aaggacaaca acctcaagac catcgaggag atcatcagct tccagcacct 1200

gcaccgcctc acctgcctta agctgtggta caaccacatc gcctacatcc 1250

P1618P2C3 sequence listing.txt

ccatccagat cgccaacctc accaacctgg agcgccctcta cctgaaccgc 1300
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ctacacctggac ctcagccaca acaacacctgac cttccctccct gccgacatcg 1400
gcctccctgca gaacacctccag aaccttagcca tcacggccaa ccggatcgag 1450
acgctccctc cggagctctt ccagtgccgg aagctgcggg ccctgcaccc 1500
gggcaacaac gtgctgcagt cactgcctc cagggtgggc gagctgacca 1550
acctgacgca gatcgagctg cggggcaacc ggctggagtg cctgcctgtg 1600
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aactcccgaa cagccaggac agcctcgccg ctgggcagga gcctggggcc 1850
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aaaaaaaaaaa aaaaacttaa aaaaaaaaaag acactaacgg ccagttagtt 2500
ggagtctcag ggcagggtgg cagttccct tgagcaaagc agccagacgt 2550
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atgtgtcttgc caggcactc atttctgtgg ctgtcggcca gagggaatgt 2750
tctggagctg ccaaggaggg aggagactcg gggtggctaa tccccggatg 2800
aacggtgctc cattcgcacc tccccctccctc gtgcctgccccc tgccctctcca 2850

P1618P2C3 sequence listing.txt

cgcacagtgt taaggagcca agaggagcca cttcgccca agctttttc 2900
cccacccctt gccccatggg tgggtccagt gccaccgcgtg gcctccgcgt 2950
cttccatca gccctgtcgcc acctggtcct tcataaagag cagacactta 3000
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ccaaggccgt tcccgccctt ggcgccttggaa gtgcacacag cccagtcggc 3100
acctggtgcc tggaaagccaa cctgttttag atcactcggtt ccccccacctt 3150
agaagggtcc ccgccttaga tcaatcacgt ggacactaag gcacgtttta 3200
gagtctcttg tcttaatgtat tatgtccatc cgtctgtccg tccatttgtg 3250
ttttctgcgt cgtgtcattt gatataatcc tcagaaataa tgacacttag 3300
cctctgacaa ccatgaagca aaaatccgtt acatgtgggt ctgaacttgt 3350
agactcggtc acagtatcaa ataaaatcta taacagaaaa aaaaaaaaaa 3400
a 3401

<210> 250
<211> 546
<212> PRT
<213> Homo Sapien

<400> 250
Met Arg Gln Thr Ile Ile Lys Val Ile Lys Phe Ile Leu Ile Ile
1 5 10 15
Cys Tyr Thr Val Tyr Tyr Val His Asn Ile Lys Phe Asp Val Asp
20 25 30
Cys Thr Val Asp Ile Glu Ser Leu Thr Gly Tyr Arg Thr Tyr Arg
35 40 45
Cys Ala His Pro Leu Ala Thr Leu Phe Lys Ile Leu Ala Ser Phe
50 55 60
Tyr Ile Ser Leu Val Ile Phe Tyr Gly Leu Ile Cys Met Tyr Thr
65 70 75
Leu Trp Trp Met Leu Arg Arg Ser Leu Lys Lys Tyr Ser Phe Glu
80 85 90
Ser Ile Arg Glu Glu Ser Ser Tyr Ser Asp Ile Pro Asp Val Lys
95 100 105
Asn Asp Phe Ala Phe Met Leu His Leu Ile Asp Gln Tyr Asp Pro
110 115 120
Leu Tyr Ser Lys Arg Phe Ala Val Phe Leu Ser Glu Val Ser Glu
125 130 135
Asn Lys Leu Arg Gln Leu Asn Leu Asn Asn Glu Trp Thr Leu Asp
140 145 150
Lys Leu Arg Gln Arg Leu Thr Lys Asn Ala Gln Asp Lys Leu Glu
155 160 165

P1618P2C3 sequence listing.txt

Leu His Leu Phe Met Leu Ser Gly Ile Pro Asp Thr Val Phe Asp
170 175 180
Leu Val Glu Leu Glu Val Leu Lys Leu Glu Leu Ile Pro Asp Val
185 190 195
Thr Ile Pro Pro Ser Ile Ala Gln Leu Thr Gly Leu Lys Glu Leu
200 205 210
Trp Leu Tyr His Thr Ala Ala Lys Ile Glu Ala Pro Ala Leu Ala
215 220 225
Phe Leu Arg Glu Asn Leu Arg Ala Leu His Ile Lys Phe Thr Asp
230 235 240
Ile Lys Glu Ile Pro Leu Trp Ile Tyr Ser Leu Lys Thr Leu Glu
245 250 255
Glu Leu His Leu Thr Gly Asn Leu Ser Ala Glu Asn Asn Arg Tyr
260 265 270
Ile Val Ile Asp Gly Leu Arg Glu Leu Lys Arg Leu Lys Val Leu
275 280 285
Arg Leu Lys Ser Asn Leu Ser Lys Leu Pro Gln Val Val Thr Asp
290 295 300
Val Gly Val His Leu Gln Lys Leu Ser Ile Asn Asn Glu Gly Thr
305 310 315
Lys Leu Ile Val Leu Asn Ser Leu Lys Lys Met Ala Asn Leu Thr
320 325 330
Glu Leu Glu Leu Ile Arg Cys Asp Leu Glu Arg Ile Pro His Ser
335 340 345
Ile Phe Ser Leu His Asn Leu Gln Glu Ile Asp Leu Lys Asp Asn
350 355 360
Asn Leu Lys Thr Ile Glu Glu Ile Ile Ser Phe Gln His Leu His
365 370 375
Arg Leu Thr Cys Leu Lys Leu Trp Tyr Asn His Ile Ala Tyr Ile
380 385 390
Pro Ile Gln Ile Gly Asn Leu Thr Asn Leu Glu Arg Leu Tyr Leu
395 400 405
Asn Arg Asn Lys Ile Glu Lys Ile Pro Thr Gln Leu Phe Tyr Cys
410 415 420
Arg Lys Leu Arg Tyr Leu Asp Leu Ser His Asn Asn Leu Thr Phe
425 430 435
Leu Pro Ala Asp Ile Gly Leu Leu Gln Asn Leu Gln Asn Leu Ala
440 445 450
Ile Thr Ala Asn Arg Ile Glu Thr Leu Pro Pro Glu Leu Phe Gln
455 460 465
Cys Arg Lys Leu Arg Ala Leu His Leu Gly Asn Asn Val Leu Gln
470 475 480

P1618P2C3 sequence listing.txt

Ser Leu Pro Ser Arg Val Gly Glu Leu Thr Asn Leu Thr Gln Ile
485 490 495
Glu Leu Arg Gly Asn Arg Leu Glu Cys Leu Pro Val Glu Leu Gly
500 505 510
Glu Cys Pro Leu Leu Lys Arg Ser Gly Leu Val Val Glu Glu Asp
515 520 525
Leu Phe Asn Thr Leu Pro Pro Glu Val Lys Glu Arg Leu Trp Arg
530 535 540
Ala Asp Lys Glu Gln Ala
545

<210> 251
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 251
caacaatgag ggcaccaaggc 20

<210> 252
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 252
gatggctagg ttctggaggt tctg 24

<210> 253
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 253
caacctgcag gagattgacc tcaaggacaa caacctaag accatcg 47

<210> 254
<211> 1650
<212> DNA
<213> Homo Sapien

<400> 254
gcctgttgct gatgctgccg tgccgtactt gtcatggagc tggcactgcg 50
gcgctctccc gtccccgcgtt ggttgctgct gctccgcctg ctgctgggcc 100
tgaacgcagg agctgtcatt gactggccca cagaggaggg caaggaagta 150
tgggattatg tgacggtccg caaggatgcc tacatgttct ggtggctcta 200

P1618P2C3 sequence listing.txt

ttatgccacc aactcctgca agaacttctc agaactgccc ctggtcatgt 250
ggcttcaggc cggtccaggc ggttctagca ctggatttg 300
gaaattgggc cccttgacag ttagtctaaa ccacggaaaa ccacctggct 350
ccaggctgcc agtctcttat ttgtggataa tccccgtggc actgggtca 400
gttatgtgaa tggtagtggt gcctatgcca aggacctggc tatggtggt 450
tcagacatga tggttctcct gaagaccttc ttcagttgcc acaaagaatt 500
ccagacagtt ccattctaca ttttctcaga gtcctatgga ggaaaaatgg 550
cagctggcat tggtctagag ctttataagg ccattcagcg agggaccatc 600
aagtgcact ttgcgggggt tgccttgggt gattcctgga tctccctgt 650
tgattcggtg ctctcctggg gaccttacct gtacagcatg tctcttctcg 700
aagacaaagg tctggcagag gtgtctaagg ttgcagagca agtactgaat 750
gccgtaaata aggggctcta cagagaggcc acagagctgt gggggaaagc 800
agaaatgatc attgaacaga acacagatgg ggtgaacttc tataacatct 850
taactaaaag cactcccacg tctacaatgg agtcgagtct agaattcaca 900
cagagccacc tagttgtct ttgtcagcgc cacgtgagac acctacaacg 950
agatgccta agccagctca tgaatggccc catcagaag aagctaaaa 1000
ttattcctga ggtcaatcc tggggaggcc aggctaccaa cgtcttgtg 1050
aacatggagg aggacttcat gaagccagtc attagcattt tggacgagtt 1100
gctggaggca gggatcaacg tgacggtgta taatggacag ctggatctca 1150
tcgtagatac catgggtcag gaggcctggg tgcggaaact gaagtggcca 1200
gaactgccta aattcagtca gctgaagtgg aaggccctgt acagtgaccc 1250
taaatcttg gaaacatctg cttttgtcaa gtcctacaag aaccttgctt 1300
tctactggat tctgaaagct ggtcatatgg ttccttctga ccaaggggac 1350
atggctctga agatgatgag actggtgact cagcaagaat agatggatg 1400
gggctggaga tgagctggtt tggccttggg gcacagagct gagctgaggc 1450
cgctgaagct gtaggaagcg ccattctcc ctgtatctaa ctggggctgt 1500
gatcaagaag gttctgacca gcttctgcag aggataaaat cattgtctct 1550
ggaggcaatt tggaaattat ttctgcttct taaaaaaaaacc taagatttt 1600
taaaaaattt atttgtttt atcaaaaataa aggatgataa tagatattaa 1650

<210> 255

<211> 452

<212> PRT

<213> Homo Sapien

P1618P2C3 sequence listing.txt

<400> 255
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 Leu Leu Pro Leu Leu Leu Gly Leu Asn Ala Gly Ala Val Ile Asp
 20 25 30
 Trp Pro Thr Glu Glu Gly Lys Glu Val Trp Asp Tyr Val Thr Val
 35 40 45
 Arg Lys Asp Ala Tyr Met Phe Trp Trp Leu Tyr Tyr Ala Thr Asn
 50 55 60
 Ser Cys Lys Asn Phe Ser Glu Leu Pro Leu Val Met Trp Leu Gln
 65 70 75
 Gly Gly Pro Gly Gly Ser Ser Thr Gly Phe Gly Asn Phe Glu Glu
 80 85 90
 Ile Gly Pro Leu Asp Ser Asp Leu Lys Pro Arg Lys Thr Thr Trp
 95 100 105
 Leu Gln Ala Ala Ser Leu Leu Phe Val Asp Asn Pro Val Gly Thr
 110 115 120
 Gly Phe Ser Tyr Val Asn Gly Ser Gly Ala Tyr Ala Lys Asp Leu
 125 130 135
 Ala Met Val Ala Ser Asp Met Met Val Leu Leu Lys Thr Phe Phe
 140 145 150
 Ser Cys His Lys Glu Phe Gln Thr Val Pro Phe Tyr Ile Phe Ser
 155 160 165
 Glu Ser Tyr Gly Gly Lys Met Ala Ala Gly Ile Gly Leu Glu Leu
 170 175 180
 Tyr Lys Ala Ile Gln Arg Gly Thr Ile Lys Cys Asn Phe Ala Gly
 185 190 195
 Val Ala Leu Gly Asp Ser Trp Ile Ser Pro Val Asp Ser Val Leu
 200 205 210
 Ser Trp Gly Pro Tyr Leu Tyr Ser Met Ser Leu Leu Glu Asp Lys
 215 220 225
 Gly Leu Ala Glu Val Ser Lys Val Ala Glu Gln Val Leu Asn Ala
 230 235 240
 Val Asn Lys Gly Leu Tyr Arg Glu Ala Thr Glu Leu Trp Gly Lys
 245 250 255
 Ala Glu Met Ile Ile Glu Gln Asn Thr Asp Gly Val Asn Phe Tyr
 260 265 270
 Asn Ile Leu Thr Lys Ser Thr Pro Thr Ser Thr Met Glu Ser Ser
 275 280 285
 Leu Glu Phe Thr Gln Ser His Leu Val Cys Leu Cys Gln Arg His
 290 295 300
 Val Arg His Leu Gln Arg Asp Ala Leu Ser Gln Leu Met Asn Gly
 305 310 315

P1618P2C3 sequence listing.txt

Pro Ile Arg Lys Lys Leu Lys Ile Ile Pro Glu Asp Gln Ser Trp
320 325 330
Gly Gly Gln Ala Thr Asn Val Phe Val Asn Met Glu Glu Asp Phe
335 340 345
Met Lys Pro Val Ile Ser Ile Val Asp Glu Leu Leu Glu Ala Gly
350 355 360
Ile Asn Val Thr Val Tyr Asn Gly Gln Leu Asp Leu Ile Val Asp
365 370 375
Thr Met Gly Gln Glu Ala Trp Val Arg Lys Leu Lys Trp Pro Glu
380 385 390
Leu Pro Lys Phe Ser Gln Leu Lys Trp Lys Ala Leu Tyr Ser Asp
395 400 405
Pro Lys Ser Leu Glu Thr Ser Ala Phe Val Lys Ser Tyr Lys Asn
410 415 420
Leu Ala Phe Tyr Trp Ile Leu Lys Ala Gly His Met Val Pro Ser
425 430 435
Asp Gln Gly Asp Met Ala Leu Lys Met Met Arg Leu Val Thr Gln
440 445 450
Gln Glu

<210> 256
<211> 1100
<212> DNA
<213> Homo Sapien

<400> 256
ggccgcggga gaggaggcca tgggcgcgca cggggcgctg ctgctggcgc 50
tgctgctggc tcgggctgga ctcaggaagc cggagtcgca ggaggcggcg 100
ccgttatcag gaccatgcgg ccgacgggtc atcacgtcgc gcatcgtggg 150
tggagaggac gccgaactcg ggcgttggcc gtggcagggg agcctgcgcc 200
tgtggattc ccacgtatgc ggagttagcc tgctcagcca ccgctggca 250
ctcacggcgg cgcactgctt taaaacctat agtgcaccaa gtgatccctc 300
cgggtggatg gtccagtttgc gccagctgac ttccatgcca tccttctgga 350
gcctgcaggc ctactacacc cgttacttcg tatcgaatat ctatctgagc 400
cctcgctacc tgggaattc accctatgac attgccttgg tgaagctgtc 450
tgcacctgtc acctacacta aacacatcca gcccatactgt ctccaggcct 500
ccacatttga gtttgagaac cggacagact gctgggtgac tggctggggg 550
tacatcaaag aggatgaggc actgccatct ccccacaccc tccaggaagt 600
tcaggtcgcc atcataaaca actctatgtc caaccacctc ttccctcaagt 650

P1618P2C3 sequence listing.txt

acagtttccg caaggacatc tttggagaca tggttgtgc tggcaacgcc 700
caaggcggga agatgcctg ctcgggtgac tcaggtggac ccttggcctg 750
taacaagaat ggactgtggt atcagattgg agtcgtgagc tggggagtgg 800
gctgtggtcg gccaatcg 850
tttgagtgaa tccagaagct gatggcccag agtggcatgt cccagccaga 900
ccccctcctgg ccactactct tttccctct tctctggct ctcccaactcc 950
tggggccgg 1000
tggtaataaa cacattccag 1050
ttgatgcctt gcagggcatt cttcaaaaaa aaaaaaaaaa 1100

<210> 257

<211> 314

<212> PRT

<213> Homo Sapien

<400> 257

Met Gly Ala Arg Gly Ala Leu Leu Leu Ala Leu Leu Leu Ala Arg
1 5 10 15

Ala Gly Leu Arg Lys Pro Glu Ser Gln Glu Ala Ala Pro Leu Ser
20 25 30

Gly Pro Cys Gly Arg Arg Val Ile Thr Ser Arg Ile Val Gly Gly
35 40 45

Glu Asp Ala Glu Leu Gly Arg Trp Pro Trp Gln Gly Ser Leu Arg
50 55 60

Leu Trp Asp Ser His Val Cys Gly Val Ser Leu Leu Ser His Arg
65 70 75

Trp Ala Leu Thr Ala Ala His Cys Phe Glu Thr Tyr Ser Asp Leu
80 85 90

Ser Asp Pro Ser Gly Trp Met Val Gln Phe Gly Gln Leu Thr Ser
95 100 105

Met Pro Ser Phe Trp Ser Leu Gln Ala Tyr Tyr Thr Arg Tyr Phe
110 115 120

Val Ser Asn Ile Tyr Leu Ser Pro Arg Tyr Leu Gly Asn Ser Pro
125 130 135

Tyr Asp Ile Ala Leu Val Lys Leu Ser Ala Pro Val Thr Tyr Thr
140 145 150

Lys His Ile Gln Pro Ile Cys Leu Gln Ala Ser Thr Phe Glu Phe
155 160 165

Glu Asn Arg Thr Asp Cys Trp Val Thr Gly Trp Gly Tyr Ile Lys
170 175 180

Glu Asp Glu Ala Leu Pro Ser Pro His Thr Leu Gln Glu Val Gln
185 190 195

P1618P2C3 sequence listing.txt

Val Ala Ile Ile Asn Asn Ser Met Cys Asn His Leu Phe Leu Lys
200 205 210
Tyr Ser Phe Arg Lys Asp Ile Phe Gly Asp Met Val Cys Ala Gly
215 220 225
Asn Ala Gln Gly Gly Lys Asp Ala Cys Phe Gly Asp Ser Gly Gly
230 235 240
Pro Leu Ala Cys Asn Lys Asn Gly Leu Trp Tyr Gln Ile Gly Val
245 250 255
Val Ser Trp Gly Val Gly Cys Gly Arg Pro Asn Arg Pro Gly Val
260 265 270
Tyr Thr Asn Ile Ser His His Phe Glu Trp Ile Gln Lys Leu Met
275 280 285
Ala Gln Ser Gly Met Ser Gln Pro Asp Pro Ser Trp Pro Leu Leu
290 295 300
Phe Phe Pro Leu Leu Trp Ala Leu Pro Leu Leu Gly Pro Val
305 310

<210> 258

<211> 2427

<212> DNA

<213> Homo Sapien

<400> 258

cccacgcgtc cgcggacgca tggaaaggac agaatggac tccaagcctg 50
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cgagccccga ccagcggagg acgctcccc caggctgggt gtccctggc 150
cgtcggacc ctgaggaaga gctgagtctc acctttccc tgagacagca 200
gaatgtggaa agactctcg agctggtgca ggctgtgtcg gatcccagct 250
ctccctcaata cggaaaatac ctgaccctag agaatgtggc tgatctggc 300
aggccatccc cactgaccct ccacacggc caaaaatggc tcttggcagc 350
cggagcccaag aagtgcatt ctgtgatcac acaggactt ctgacttgct 400
ggctgagcat ccgacaagca gagctgctgc tccctgggc tgagttcat 450
cactatgtgg gaggacctac ggaaacccat gttgttaaggc ccccacatcc 500
ctaccagctt ccacaggcct tggccccc tggacttt gtggggggac 550
tgacccgttt tcccccaaca tcattccctga ggcaacgtcc tgagccgcag 600
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taagcgatac aacttgacct cacaagacgt gggctctggc accagcaata 700
acagccaaacg ctgtgcccag ttccctggac agtatttcca tgactcagac 750
ctggctcagt tcattgcgcct ctccgggtggc aactttgcac atcaggcatc 800
agtagcccggt gtgggtggac aacaggggccg gggccggggcc gggattgagg 850

P1618P2C3 sequence listing.txt

ccagtctaga tgtgcagtagc ctgatgagtg ctgggtccaa catctccacc 900
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tgagctatgg agatgatgag gactccctca gcagcgcccta catccagcgg 1050
gtcaacactg agctcatgaa ggctgcccgt cggggctctca ccctgctctt 1100
cgccctcaggt gacagtgggg cccgggtttt gtctgtctct ggaagacacc 1150
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ggcacatcct tccaggaacc tttcctcattt acaaatgaaa ttgttgacta 1250
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agttacttca atgccagtggtt ccgtgcctac ccagatgtgg ctgcactttc 1400
tgatggctac tgggtggtca gcaacagagt gcccatttcca tgggtgtccg 1450
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gagcacagga tccttagtgg ccggcccccctt cttggctttc tcaacccaag 1550
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atcataactca ggtctcccta ctccctgcctt agattctca ataagatgct 1950
gtaactagca tttttgaat gcctctccctt ccgcattctca tctttctctt 2000
ttcaatcagg cttttccaaa gggttgtata cagactctgt gcactatttc 2050
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ccttacttag cttccagggtc ttaacttctc tgactactct tggctccctc 2250
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tgttagatttt tgctcttctc agtttactca ttgtccctg gaacaaatca 2350
ctgacatcta caaccattac catctcaacta aataagactt tctatccaat 2400

P1618P2C3 sequence listing.txt
aatgatttgcat acctcaaatg taaaaaa 2427

<210> 259
<211> 556
<212> PRT
<213> Homo Sapien

<400> 259
Met Gly Leu Gln Ala Cys Leu Leu Gly Leu Phe Ala Leu Ile Leu
1 5 10 15
Ser Gly Lys Cys Ser Tyr Ser Pro Glu Pro Asp Gln Arg Arg Thr
20 25 30
Leu Pro Pro Gly Trp Val Ser Leu Gly Arg Ala Asp Pro Glu Glu
35 40 45
Glu Leu Ser Leu Thr Phe Ala Leu Arg Gln Gln Asn Val Glu Arg
50 55 60
Leu Ser Glu Leu Val Gln Ala Val Ser Asp Pro Ser Ser Pro Gln
65 70 75
Tyr Gly Lys Tyr Leu Thr Leu Glu Asn Val Ala Asp Leu Val Arg
80 85 90
Pro Ser Pro Leu Thr Leu His Thr Val Gln Lys Trp Leu Leu Ala
95 100 105
Ala Gly Ala Gln Lys Cys His Ser Val Ile Thr Gln Asp Phe Leu
110 115 120
Thr Cys Trp Leu Ser Ile Arg Gln Ala Glu Leu Leu Leu Pro Gly
125 130 135
Ala Glu Phe His His Tyr Val Gly Gly Pro Thr Glu Thr His Val
140 145 150
Val Arg Ser Pro His Pro Tyr Gln Leu Pro Gln Ala Leu Ala Pro
155 160 165
His Val Asp Phe Val Gly Gly Leu His Arg Phe Pro Pro Thr Ser
170 175 180
Ser Leu Arg Gln Arg Pro Glu Pro Gln Val Thr Gly Thr Val Gly
185 190 195
Leu His Leu Gly Val Thr Pro Ser Val Ile Arg Lys Arg Tyr Asn
200 205 210
Leu Thr Ser Gln Asp Val Gly Ser Gly Thr Ser Asn Asn Ser Gln
215 220 225
Ala Cys Ala Gln Phe Leu Glu Gln Tyr Phe His Asp Ser Asp Leu
230 235 240
Ala Gln Phe Met Arg Leu Phe Gly Gly Asn Phe Ala His Gln Ala
245 250 255
Ser Val Ala Arg Val Val Gly Gln Gln Gly Arg Gly Arg Ala Gly
260 265 270
Ile Glu Ala Ser Leu Asp Val Gln Tyr Leu Met Ser Ala Gly Ala

P1618P2C3 sequence listing.txt
275 280 285

Asn Ile Ser Thr Trp Val Tyr Ser Ser Pro Gly Arg His Glu Gly
290 295 300
Gln Glu Pro Phe Leu Gln Trp Leu Met Leu Leu Ser Asn Glu Ser
305 310 315
Ala Leu Pro His Val His Thr Val Ser Tyr Gly Asp Asp Glu Asp
320 325 330
Ser Leu Ser Ser Ala Tyr Ile Gln Arg Val Asn Thr Glu Leu Met
335 340 345
Lys Ala Ala Ala Arg Gly Leu Thr Leu Leu Phe Ala Ser Gly Asp
350 355 360
Ser Gly Ala Gly Cys Trp Ser Val Ser Gly Arg His Gln Phe Arg
365 370 375
Pro Thr Phe Pro Ala Ser Ser Pro Tyr Val Thr Thr Val Gly Gly
380 385 390
Thr Ser Phe Gln Glu Pro Phe Leu Ile Thr Asn Glu Ile Val Asp
395 400 405
Tyr Ile Ser Gly Gly Phe Ser Asn Val Phe Pro Arg Pro Ser
410 415 420
Tyr Gln Glu Glu Ala Val Thr Lys Phe Leu Ser Ser Pro His
425 430 435
Leu Pro Pro Ser Ser Tyr Phe Asn Ala Ser Gly Arg Ala Tyr Pro
440 445 450
Asp Val Ala Ala Leu Ser Asp Gly Tyr Trp Val Val Ser Asn Arg
455 460 465
Val Pro Ile Pro Trp Val Ser Gly Thr Ser Ala Ser Thr Pro Val
470 475 480
Phe Gly Gly Ile Leu Ser Leu Ile Asn Glu His Arg Ile Leu Ser
485 490 495
Gly Arg Pro Pro Leu Gly Phe Leu Asn Pro Arg Leu Tyr Gln Gln
500 505 510
His Gly Ala Gly Leu Phe Asp Val Thr Arg Gly Cys His Glu Ser
515 520 525
Cys Leu Asp Glu Glu Val Glu Gly Gln Gly Phe Cys Ser Gly Pro
530 535 540
Gly Trp Asp Pro Val Thr Gly Trp Gly Thr Pro Thr Ser Gln Leu
545 550 555

Cys

<210> 260
<211> 1638
<212> DNA
<213> Homo Sapien

P1618P2C3 sequence listing.txt

<400> 260
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attccagggc tcctcttc tctttt ctgc tctgtg ctgttggca 150
agtgagccct tacagtgc cctggaaacc cacttggcct gcataaccgcc 200
tccctgtcgt cttgccccag tctaccctca atttagccaa gccagacttt 250
ggagccgaag ccaaattaga agtatctct tcatgtggac cccagtgtca 300
taagggaact ccactgcca cttacgaaga ggccaagcaa tatctgtctt 350
atgaaaacgct ctatgccaat ggcagccgca cagagacgca ggtgggcattc 400
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tcagcattt tgggaaggac ttccctgctca actaccctt ctcaacatca 550
gtgaagttat ccacggcgtg caccggcacc ctggtggcag agaagcatgt 600
cctcacagct gcccactgca tacacgatgg aaaaacctat gtgaaaggaa 650
cccagaagct tcgagtggc ttccctaaagc ccaagttaa agatggtggt 700
cgaggggcca acgactccac tttagccatg cccgagcaga taaaatttca 750
gtggatccgg gtgaaacgca cccatgtgcc caagggttgg atcaaggc 800
atgccaatga catcgccatg gattatgatt atgcccctt ggaactcaaa 850
aagccccaca agagaaaatt tatgaagatt ggggtgagcc ctccctgctaa 900
gcagctgcca gggggcagaa ttcaatttctc tggttatgac aatgaccgac 950
caggcaattt ggttatcgc ttctgtgacg tcaaagacga gacctatgac 1000
ttgctctacc agcaatgcga tgccca gggccagcg ggtctgggt 1050
ctatgtgagg atgtgaaaga gacagcagca gaagtggag cgaaaaatta 1100
ttggcatttt ttcaaggc acgtgggtgg acatgaatgg ttccccacag 1150
gatttcaacg tggctgtcag aatcaacttctt ctcaaataatg cccagattt 1200
ctattggatt aaaggaaact acctggattt tagggagggg tgacacagt 1250
ttccctcttgc gcaatttca agggcttca tggcttattt ttaggagagg 1300
ccaaattgtt ttttgtcatt ggcgtgcaca cgtgtgtgtg tgggtgtgt 1350
tgtgtgtaaag gtgtcttata atcttttacc tatttcttac aattgcaaga 1400
tgactggctt tactatttga aaactggttt gtgtatcata tcataatca 1450
tttaaggcgt ttgaaggcat acttttgcattt agaaataaaa aaaataactga 1500
tttggggcaa tgaggaatat ttgacaattt agttaatctt cacgttttg 1550

P1618P2C3 sequence listing.txt

caaactttga ttttatttc atctgaactt gtttcaaaga tttatattaa 1600

atatttggca tacaagagat atgaaaaaaaaaaaaaaa 1638

<210> 261

<211> 383

<212> PRT

<213> Homo Sapien

<400> 261

Met Ala Gly Ile Pro Gly Leu Leu Phe Leu Leu Phe Phe Leu Leu
1 5 10 15

Cys Ala Val Gly Gln Val Ser Pro Tyr Ser Ala Pro Trp Lys Pro
20 25 30

Thr Trp Pro Ala Tyr Arg Leu Pro Val Val Leu Pro Gln Ser Thr
35 40 45

Leu Asn Leu Ala Lys Pro Asp Phe Gly Ala Glu Ala Lys Leu Glu
50 55 60

Val Ser Ser Ser Cys Gly Pro Gln Cys His Lys Gly Thr Pro Leu
65 70 75

Pro Thr Tyr Glu Glu Ala Lys Gln Tyr Leu Ser Tyr Glu Thr Leu
80 85 90

Tyr Ala Asn Gly Ser Arg Thr Glu Thr Gln Val Gly Ile Tyr Ile
95 100 105

Leu Ser Ser Ser Gly Asp Gly Ala Gln His Arg Asp Ser Gly Ser
110 115 120

Ser Gly Lys Ser Arg Arg Lys Arg Gln Ile Tyr Gly Tyr Asp Ser
125 130 135

Arg Phe Ser Ile Phe Gly Lys Asp Phe Leu Leu Asn Tyr Pro Phe
140 145 150

Ser Thr Ser Val Lys Leu Ser Thr Gly Cys Thr Gly Thr Leu Val
155 160 165

Ala Glu Lys His Val Leu Thr Ala Ala His Cys Ile His Asp Gly
170 175 180

Lys Thr Tyr Val Lys Gly Thr Gln Lys Leu Arg Val Gly Phe Leu
185 190 195

Lys Pro Lys Phe Lys Asp Gly Gly Arg Gly Ala Asn Asp Ser Thr
200 205 210

Ser Ala Met Pro Glu Gln Met Lys Phe Gln Trp Ile Arg Val Lys
215 220 225

Arg Thr His Val Pro Lys Gly Trp Ile Lys Gly Asn Ala Asn Asp
230 235 240

Ile Gly Met Asp Tyr Asp Tyr Ala Leu Leu Glu Leu Lys Lys Pro
245 250 255

His Lys Arg Lys Phe Met Lys Ile Gly Val Ser Pro Pro Ala Lys
Page 169

260 P1618P2C3 sequence listing.txt
265 270

Gln Leu Pro Gly Gly Arg Ile His Phe Ser Gly Tyr Asp Asn Asp
275 280 285
Arg Pro Gly Asn Leu Val Tyr Arg Phe Cys Asp Val Lys Asp Glu
290 295 300
Thr Tyr Asp Leu Leu Tyr Gln Gln Cys Asp Ala Gln Pro Gly Ala
305 310 315
Ser Gly Ser Gly Val Tyr Val Arg Met Trp Lys Arg Gln Gln Gln
320 325 330
Lys Trp Glu Arg Lys Ile Ile Gly Ile Phe Ser Gly His Gln Trp
335 340 345
Val Asp Met Asn Gly Ser Pro Gln Asp Phe Asn Val Ala Val Arg
350 355 360
Ile Thr Pro Leu Lys Tyr Ala Gln Ile Cys Tyr Trp Ile Lys Gly
365 370 375
Asn Tyr Leu Asp Cys Arg Glu Gly
380

<210> 262

<211> 1378

<212> DNA

<213> Homo Sapien

<400> 262

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accttcacct ccctgctgct gctggcgtcg acagccatcc tcaatgcggc 150
caggataacct gttcccccag cctgtggaa gccccagcag ctgaaccggg 200
ttgtggcgg cgaggacagc actgacagcg agtggccctg gatcgtgagc 250
atccagaaga atgggaccca ccactgcgca ggttctctgc tcaccagccg 300
ctgggtgatc actgctgccc actgtttcaa ggacaacctg aacaaaccat 350
acctgttctc tgtgctgctg gggcctggc agctggggaa ccctggctct 400
cggtcccaga aggtgggtgt tgccctgggtg gagccccacc ctgtgtattc 450
ctggaaggaa ggtgcctgtg cagacattgc cctggcgtcg ctgcagcgct 500
ccatacagtt ctcagagcgg gtccctgcca tctgcctacc ttagtgcctct 550
atccacctcc ctccaaacac ccactgctgg atctcaggct gggggagcat 600
ccaagatgga gttcccttgc cccaccctca gaccctgcag aagctgaagg 650
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ggacagggac ccatcactga ggacatgctg tgtgccggct acttggaggg 750
ggagcgggat gcttgtctgg gcgactccgg gggccccctc atgtgccagg 800

P1618P2C3 sequence listing.txt

tggacggcgc ctggctgctg gccggcatca tcagctgggg cgagggttgt 850
gccgagcgca acaggcccgg ggtctacatc agcctctctg cgccaccgctc 900
ctgggtggag aagatcgtgc aaggggtgca gctccgcggg cgcgctcagg 950
ggggtggggc cctcagggca ccgagccagg gctctggggc cgccgcgcgc 1000
tccttagggcg cagcgggacg cggggctcgg atctgaaagg cggccagatc 1050
cacatctgga tctggatctg cggcggcctc gggcggtttc cccgcggta 1100
aataggctca tctacctcta cctctggggc cccggacggc tgctgcggaa 1150
agaaaacccc ctccccgacc cccccgacgg cctcaggccc ccctccaagg 1200
catcaggccc cgcccaacgg cctcatgtcc ccgccccac gacttccggc 1250
cccgcccccg ggccccagcg ctttgtgta tataaatgtt aatgattttt 1300
ataggtattt gtaaccctgc ccacatatct tatttattcc tccaatttca 1350
ataaattatt tattctccaa aaaaaaaaa 1378

<210> 263
<211> 317
<212> PRT
<213> Homo Sapien

<400> 263
Met Val Val Ser Gly Ala Pro Pro Ala Leu Gly Gly Gly Cys Leu
1 5 10 15
Gly Thr Phe Thr Ser Leu Leu Leu Leu Ala Ser Thr Ala Ile Leu
20 25 30
Asn Ala Ala Arg Ile Pro Val Pro Pro Ala Cys Gly Lys Pro Gln
35 40 45
Gln Leu Asn Arg Val Val Gly Gly Glu Asp Ser Thr Asp Ser Glu
50 55 60
Trp Pro Trp Ile Val Ser Ile Gln Lys Asn Gly Thr His His Cys
65 70 75
Ala Gly Ser Leu Leu Thr Ser Arg Trp Val Ile Thr Ala Ala His
80 85 90
Cys Phe Lys Asp Asn Leu Asn Lys Pro Tyr Leu Phe Ser Val Leu
95 100 105
Leu Gly Ala Trp Gln Leu Gly Asn Pro Gly Ser Arg Ser Gln Lys
110 115 120
Val Gly Val Ala Trp Val Glu Pro His Pro Val Tyr Ser Trp Lys
125 130 135
Glu Gly Ala Cys Ala Asp Ile Ala Leu Val Arg Leu Glu Arg Ser
140 145 150
Ile Gln Phe Ser Glu Arg Val Leu Pro Ile Cys Leu Pro Asp Ala
155 160 165

P1618P2C3 sequence listing.txt

Ser Ile His Leu Pro Pro Asn Thr His Cys Trp Ile Ser Gly Trp
170 175 180
Gly Ser Ile Gln Asp Gly Val Pro Leu Pro His Pro Gln Thr Leu
185 190 195
Gln Lys Leu Lys Val Pro Ile Ile Asp Ser Glu Val Cys Ser His
200 205 210
Leu Tyr Trp Arg Gly Ala Gly Gln Gly Pro Ile Thr Glu Asp Met
215 220 225
Leu Cys Ala Gly Tyr Leu Glu Gly Glu Arg Asp Ala Cys Leu Gly
230 235 240
Asp Ser Gly Gly Pro Leu Met Cys Gln Val Asp Gly Ala Trp Leu
245 250 255
Leu Ala Gly Ile Ile Ser Trp Gly Glu Gly Cys Ala Glu Arg Asn
260 265 270
Arg Pro Gly Val Tyr Ile Ser Leu Ser Ala His Arg Ser Trp Val
275 280 285
Glu Lys Ile Val Gln Gly Val Gln Leu Arg Gly Arg Ala Gln Gly
290 295 300
Gly Gly Ala Leu Arg Ala Pro Ser Gln Gly Ser Gly Ala Ala Ala
305 310 315
Arg Ser

<210> 264
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 264
gtccgcaagg atgcctacat gttc 24

<210> 265
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 265
gcagaggtgt ctaagggtt 19

<210> 266
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

P1618P2C3 sequence listing.txt

<400> 266
agctctagac caatgccagc ttcc 24

<210> 267
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 267
gccaccaact cctgcaagaa ctttcagaa ctggccctgg tcattg 45

<210> 268
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 268
gggaaattca ccctatgaca ttgcc 25

<210> 269
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 269
aatgccctg caagcatcaa ctgg 24

<210> 270
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 270
gcacctgtca cctacactaa acacatccag cccatctgtc tccaggcctc 50

<210> 271
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 271
gcgaaagggc agaatggcac tccaaag 26

<210> 272
<211> 18
<212> DNA
<213> Artificial Sequence

P1618P2C3 sequence listing.txt

<220>
<223> Synthetic Oligonucleotide Probe

<400> 272
cagccctgcc acatgtgc 18

<210> 273
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 273
tactgggtgg tcagcaac 18

<210> 274
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 274
ggcgaagagc agggtgagac cccg 24

<210> 275
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 275
gccctcatcc tctctggcaa atgcagttac agcccgagc ccgac 45

<210> 276
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 276
gggcaggat tccagggttc c 21

<210> 277
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 277
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<210> 278

P1618P2C3 sequence listing.txt

<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 278
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<210> 279
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 279
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<210> 280
<211> 45
<212> DNA
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<220>
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<210> 281
<211> 34
<212> DNA
<213> Artificial Sequence

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<223> Synthetic oligonucleotide Probe

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<210> 282
<211> 61
<212> DNA
<213> Artificial Sequence

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<223> Synthetic oligonucleotide Probe

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tgccaggtgg a 61

<210> 283
<211> 119
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide Probe

P1618P2C3 sequence listing.txt

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atgttgttg ccggctact 119

<210> 284
<211> 1875
<212> DNA
<213> Homo Sapien

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agatgaggag aaacgttga tggtagact gcacaacctc taccgggcc 150
agttatccc gacggcctca gacatgctgc acatgagatg ggacgaggag 200
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caaggagcgc gggcgccgca gcgagaatct gttcgccatc acagacgagg 300
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cacgcaggtg gatatggcca agacagagag gatcggtgt gtttcccact 450
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tgcaactatg agcctccggg gaacgtgaag gggaaacggc cttaccagga 550
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tctgtgaacc catcgaaagc cggaaagatg ctcaggattt gccttacctg 650
gtaactgagg ccccatcctt cccggcgact gaagcatcag actctaggaa 700
aatgggtact cttcttccc tagcaacggg gattccggct ttcttggtaa 750
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ggctccaccc tgcgtaaaca ctgaggtccc ttccatggc gcagtcaca 900
gcctgcctc cttggatgag gagccagttt cttcccaat atcgaccat 950
gttccttatcc caaaatcagc agacaaaatg acagacaaaa caaaagtgcc 1000
ctcttaggac ccagagaact ctctggaccc caagatgtcc ctgacagggg 1050
caaggaaact cttcccaat gcccaggagg aggctgaggc tgaggctgag 1100
ttgcctcctt ccagtgaggt cttggcctca gttttccag cccaggacaa 1150
gccaggtgag ctgcaggcca cactggacca cacggggcac acctcctcca 1200
agtccctgcc caatttcccc aatacctctg ccaccgctaa tgccacgggt 1250

P1618P2C3 sequence listing.txt

ggcggtgccc tggctctgca gtcgtcctt ccaggtgcag agggccctga 1300
caaggcttagc gttgtgtcag ggctgaactc gggcccttgt catgtgtggg 1350
gccctctcct gggactactg ctccctgcctc ctctggtgtt ggctggaatc 1400
ttctgaatgg gataccactc aaagggtgaa gaggtcagct gtcctcctgt 1450
catcttcccc accctgtccc cagcccctaa acaagatact tcttggttaa 1500
ggccctccgg aaggaaagg ctacggggca tgtgcctcat cacaccatcc 1550
atcctggagg cacaaggcct ggctggctgc gagtcagga ggcgcctga 1600
ggactgcaca ccgggcccac acctctcctg cccctccctc ctgagtcctg 1650
gggtggag gatttgaggg agctcaactgc ctacctggcc tggggctgtc 1700
tgcccacaca gcatgtgcgc tctccctgag tgcctgtgtt gctggggatg 1750
gggattccta gggcagatg aaggacaagc cccactggag tggggttctt 1800
tgagtggggg aggcaaggac gaggaaagga aagtaactcc tgactctcca 1850
ataaaaacct gtccaacctg tgaaa 1875

<210> 285

<211> 463

<212> PRT

<213> Homo Sapien

<400> 285

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			20						25				30	
Glu	Glu	Lys	Arg	Leu	Met	Val	Glu	Leu	His	Asn	Leu	Tyr	Arg	Ala
				35					40				45	
Gln	Val	Ser	Pro	Thr	Ala	Ser	Asp	Met	Leu	His	Met	Arg	Trp	Asp
	50							55				60		
Glu	Glu	Leu	Ala	Ala	Phe	Ala	Lys	Ala	Tyr	Ala	Arg	Gln	Cys	Val
		65						70				75		
Trp	Gly	His	Asn	Lys	Glu	Arg	Gly	Arg	Arg	Gly	Glu	Asn	Leu	Phe
			80					85				90		
Ala	Ile	Thr	Asp	Glu	Gly	Met	Asp	Val	Pro	Leu	Ala	Met	Glu	Glu
			95						100				105	
Trp	His	His	Glu	Arg	Glu	His	Tyr	Asn	Leu	Ser	Ala	Ala	Thr	Cys
			110						115				120	
Ser	Pro	Gly	Gln	Met	Cys	Gly	His	Tyr	Thr	Gln	Val	Val	Trp	Ala
			125						130				135	
Lys	Thr	Glu	Arg	Ile	Gly	Cys	Gly	Ser	His	Phe	Cys	Glu	Lys	Leu
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P1618P2C3 sequence listing.txt
Gln Gly val Glu Glu Thr Asn Ile Glu Leu Leu Val Cys Asn Tyr
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Glu Pro Pro Gly Asn Val Lys Gly Lys Arg Pro Tyr Gln Glu Gly
170 175 180
Thr Pro Cys Ser Gln Cys Pro Ser Gly Tyr His Cys Lys Asn Ser
185 190 195
Leu Cys Glu Pro Ile Gly Ser Pro Glu Asp Ala Gln Asp Leu Pro
200 205 210
Tyr Leu Val Thr Glu Ala Pro Ser Phe Arg Ala Thr Glu Ala Ser
215 220 225
Asp Ser Arg Lys Met Gly Thr Pro Ser Ser Leu Ala Thr Gly Ile
230 235 240
Pro Ala Phe Leu Val Thr Glu Val Ser Gly Ser Leu Ala Thr Lys
245 250 255
Ala Leu Pro Ala Val Glu Thr Gln Ala Pro Thr Ser Leu Ala Thr
260 265 270
Lys Asp Pro Pro Ser Met Ala Thr Glu Ala Pro Pro Cys Val Thr
275 280 285
Thr Glu Val Pro Ser Ile Leu Ala Ala His Ser Leu Pro Ser Leu
290 295 300
Asp Glu Glu Pro Val Thr Phe Pro Lys Ser Thr His Val Pro Ile
305 310 315
Pro Lys Ser Ala Asp Lys Val Thr Asp Lys Thr Lys Val Pro Ser
320 325 330
Arg Ser Pro Glu Asn Ser Leu Asp Pro Lys Met Ser Leu Thr Gly
335 340 345
Ala Arg Glu Leu Leu Pro His Ala Gln Glu Glu Ala Glu Ala Glu
350 355 360
Ala Glu Leu Pro Pro Ser Ser Glu Val Leu Ala Ser Val Phe Pro
365 370 375
Ala Gln Asp Lys Pro Gly Glu Leu Gln Ala Thr Leu Asp His Thr
380 385 390
Gly His Thr Ser Ser Lys Ser Leu Pro Asn Phe Pro Asn Thr Ser
395 400 405
Ala Thr Ala Asn Ala Thr Gly Gly Arg Ala Leu Ala Leu Gln Ser
410 415 420
Ser Leu Pro Gly Ala Glu Gly Pro Asp Lys Pro Ser Val Val Ser
425 430 435
Gly Leu Asn Ser Gly Pro Gly His Val Trp Gly Pro Leu Leu Gly
440 445 450
Leu Leu Leu Leu Pro Pro Leu Val Leu Ala Gly Ile Phe
455 460

P1618P2C3 sequence listing.txt

<210> 286
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<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 286
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<210> 287
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 287
ctcatattgc acaccagtaa ttcg 24

<210> 288
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 288
atgaggagaa acgttgatg gtggagctgc acaacctcta ccggg 45

<210> 289
<211> 3662
<212> DNA
<213> Homo Sapien

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caaggcaagt tccatgagcc accttcaaag cttcgagaa gtgaaaactga 200
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tttggccaaac acactccttg tggatgttggaaac cgaatctcag 500
ctatcccacc caagatgtt aaactgcccc aactgcaaca tctcgaattt 550
aaccgaaaca agattaaaaa tgttagatgga ctgacattcc aaggcattgg 600

P1618P2C3 sequence listing.txt

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gcaggaactt catctcagcc aaaatgccat caacaggatc agccctgatg 800
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gcatttaaat acatcaagcc ttttgtcga ttgccagcta aaatggctcc 1250
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tggcttgggt tggatgatt ttccaaacc ccagatcacg gttcagccag 1400
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actcagatgt cagtgtatgct gggaaataca catgtgagat gtctaacacc 2200

P1618P2C3 sequence listing.txt

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gaaaatgagt tactaaagca ttttaaataa tacctgcctt gtaccatttt 3600
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tgtcaatttg aa 3662

<210> 290
<211> 1059

P1618P2C3 sequence listing.txt

<212> PRT
 <213> Homo Sapien

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 Ala Ser Ser Met Ser His Leu Gln Ser Leu Arg Glu Val Lys Leu
 35 40 45
 Asn Asn Asn Glu Leu Glu Thr Ile Pro Asn Leu Gly Pro Val Ser
 50 55 60
 Ala Asn Ile Thr Leu Leu Ser Leu Ala Gly Asn Arg Ile Val Glu
 65 70 75
 Ile Leu Pro Glu His Leu Lys Glu Phe Gln Ser Leu Glu Thr Leu
 80 85 90
 Asp Leu Ser Ser Asn Asn Ile Ser Glu Leu Gln Thr Ala Phe Pro
 95 100 105
 Ala Leu Gln Leu Lys Tyr Leu Tyr Leu Asn Ser Asn Arg Val Thr
 110 115 120
 Ser Met Glu Pro Gly Tyr Phe Asp Asn Leu Ala Asn Thr Leu Leu
 125 130 135
 Val Leu Lys Leu Asn Arg Asn Arg Ile Ser Ala Ile Pro Pro Lys
 140 145 150
 Met Phe Lys Leu Pro Gln Leu Gln His Leu Glu Leu Asn Arg Asn
 155 160 165
 Lys Ile Lys Asn Val Asp Gly Leu Thr Phe Gln Gly Leu Gly Ala
 170 175 180
 Leu Lys Ser Leu Lys Met Gln Arg Asn Gly Val Thr Lys Leu Met
 185 190 195
 Asp Gly Ala Phe Trp Gly Leu Ser Asn Met Glu Ile Leu Gln Leu
 200 205 210
 Asp His Asn Asn Leu Thr Glu Ile Thr Lys Gly Trp Leu Tyr Gly
 215 220 225
 Leu Leu Met Leu Gln Glu Leu His Leu Ser Gln Asn Ala Ile Asn
 230 235 240
 Arg Ile Ser Pro Asp Ala Trp Glu Phe Cys Gln Lys Leu Ser Glu
 245 250 255
 Leu Asp Leu Thr Phe Asn His Leu Ser Arg Leu Asp Asp Ser Ser
 260 265 270
 Phe Leu Gly Leu Ser Leu Leu Asn Thr Leu His Ile Gly Asn Asn
 275 280 285
 Arg Val Ser Tyr Ile Ala Asp Cys Ala Phe Arg Gly Leu Ser Ser
 290 295 300

P1618P2C3 sequence listing.txt

Leu Lys Thr Leu Asp Leu Lys Asn Asn Glu Ile Ser Trp Thr Ile
305 310 315
Glu Asp Met Asn Gly Ala Phe Ser Gly Leu Asp Lys Leu Arg Arg
320 325 330
Leu Ile Leu Gln Gly Asn Arg Ile Arg Ser Ile Thr Lys Lys Ala
335 340 345
Phe Thr Gly Leu Asp Ala Leu Glu His Leu Asp Leu Ser Asp Asn
350 355 360
Ala Ile Met Ser Leu Gln Gly Asn Ala Phe Ser Gln Met Lys Lys
365 370 375
Leu Gln Gln Leu His Leu Asn Thr Ser Ser Leu Leu Cys Asp Cys
380 385 390
Gln Leu Lys Trp Leu Pro Gln Trp Val Ala Glu Asn Asn Phe Gln
395 400 405
Ser Phe Val Asn Ala Ser Cys Ala His Pro Gln Leu Leu Lys Gly
410 415 420
Arg Ser Ile Phe Ala Val Ser Pro Asp Gly Phe Val Cys Asp Asp
425 430 435
Phe Pro Lys Pro Gln Ile Thr Val Gln Pro Glu Thr Gln Ser Ala
440 445 450
Ile Lys Gly Ser Asn Leu Ser Phe Ile Cys Ser Ala Ala Ser Ser
455 460 465
Ser Asp Ser Pro Met Thr Phe Ala Trp Lys Lys Asp Asn Glu Leu
470 475 480
Leu His Asp Ala Glu Met Glu Asn Tyr Ala His Leu Arg Ala Gln
485 490 495
Gly Gly Glu Val Met Glu Tyr Thr Thr Ile Leu Arg Leu Arg Glu
500 505 510
Val Glu Phe Ala Ser Glu Gly Lys Tyr Gln Cys Val Ile Ser Asn
515 520 525
His Phe Gly Ser Ser Tyr Ser Val Lys Ala Lys Leu Thr Val Asn
530 535 540
Met Leu Pro Ser Phe Thr Lys Thr Pro Met Asp Leu Thr Ile Arg
545 550 555
Ala Gly Ala Met Ala Arg Leu Glu Cys Ala Ala Val Gly His Pro
560 565 570
Ala Pro Gln Ile Ala Trp Gln Lys Asp Gly Gly Thr Asp Phe Pro
575 580 585
Ala Ala Arg Glu Arg Arg Met His Val Met Pro Glu Asp Asp Val
590 595 600
Phe Phe Ile Val Asp Val Lys Ile Glu Asp Ile Gly Val Tyr Ser
605 610 615

P1618P2C3 sequence listing.txt

Cys Thr Ala Gln Asn Ser Ala Gly Ser Ile Ser Ala Asn Ala Thr
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635 640 645
Arg Thr Val Thr Lys Gly Glu Thr Ala Val Leu Gln Cys Ile Ala
650 655 660
Gly Gly Ser Pro Pro Lys Leu Asn Trp Thr Lys Asp Asp Ser
665 670 675
Pro Leu Val Val Thr Glu Arg His Phe Phe Ala Ala Gly Asn Gln
680 685 690
Leu Leu Ile Ile Val Asp Ser Asp Val Ser Asp Ala Gly Lys Tyr
695 700 705
Thr Cys Glu Met Ser Asn Thr Leu Gly Thr Glu Arg Gly Asn Val
710 715 720
Arg Leu Ser Val Ile Pro Thr Pro Thr Cys Asp Ser Pro Gln Met
725 730 735
Thr Ala Pro Ser Leu Asp Asp Asp Gly Trp Ala Thr Val Gly Val
740 745 750
Val Ile Ile Ala Val Val Cys Cys Val Val Gly Thr Ser Leu Val
755 760 765
Trp Val Val Ile Ile Tyr His Thr Arg Arg Arg Asn Glu Asp Cys
770 775 780
Ser Ile Thr Asn Thr Asp Glu Thr Asn Leu Pro Ala Asp Ile Pro
785 790 795
Ser Tyr Leu Ser Ser Gln Gly Thr Leu Ala Asp Arg Gln Asp Gly
800 805 810
Tyr Val Ser Ser Glu Ser Gly Ser His His Gln Phe Val Thr Ser
815 820 825
Ser Gly Ala Gly Phe Phe Leu Pro Gln His Asp Ser Ser Gly Thr
830 835 840
Cys His Ile Asp Asn Ser Ser Glu Ala Asp Val Glu Ala Ala Thr
845 850 855
Asp Leu Phe Leu Cys Pro Phe Leu Gly Ser Thr Gly Pro Met Tyr
860 865 870
Leu Lys Gly Asn Val Tyr Gly Ser Asp Pro Phe Glu Thr Tyr His
875 880 885
Thr Gly Cys Ser Pro Asp Pro Arg Thr Val Leu Met Asp His Tyr
890 895 900
Glu Pro Ser Tyr Ile Lys Lys Lys Glu Cys Tyr Pro Cys Ser His
905 910 915
Pro Ser Glu Glu Ser Cys Glu Arg Ser Phe Ser Asn Ile Ser Trp
920 925 930

P1618P2C3 sequence listing.txt

Pro Ser His Val Arg Lys Leu Leu Asn Thr Ser Tyr Ser His Asn
935 940 945
Glu Gly Pro Gly Met Lys Asn Leu Cys Leu Asn Lys Ser Ser Leu
950 955 960
Asp Phe Ser Ala Asn Pro Glu Pro Ala Ser Val Ala Ser Ser Asn
965 970 975
Ser Phe Met Gly Thr Phe Gly Lys Ala Leu Arg Arg Pro His Leu
980 985 990
Asp Ala Tyr Ser Ser Phe Gly Gln Pro Ser Asp Cys Gln Pro Arg
995 1000 1005
Ala Phe Tyr Leu Lys Ala His Ser Ser Pro Asp Leu Asp Ser Gly
1010 1015 1020
Ser Glu Glu Asp Gly Lys Glu Arg Thr Asp Phe Gln Glu Glu Asn
1025 1030 1035
His Ile Cys Thr Phe Lys Gln Thr Leu Glu Asn Tyr Arg Thr Pro
1040 1045 1050
Asn Phe Gln Ser Tyr Asp Leu Asp Thr
1055

<210> 291
<211> 2906
<212> DNA
<213> Homo Sapien

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gaagctttt cttgtgagcc ctggatctta acacaatgt gtatatgtc 200
acacagggag cattcaagaa tggaaataaac cagagtttgc cccgcgggg 250
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ccaccccaa aaaaaaggat gattggaaat gaagaaccga ggattcacaa 350
agaaaaaaagt atgttcattt ttctctataa aggagaaagt gagccaagga 400
gatatttttggt gaatgaaaag tttggggctt ttttagtaaa gtaaagaact 450
ggtgtgggtgg tgttttcctt tctttttgaa tttcccacaa gaggagagga 500
aattaataat acatctgcaa agaaatttca gagaagaaaa gttgaccgcg 550
gcagatttgag gcattgatttggggagagaa accagcagag cacagtttgc 600
tttgtgccta tggtgactaa aattgacgga taattgcagt tggatTTTC 650
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atgcgttttc tcttggtctt aaccacctgg atttccatct ggatgttgct 750

P1618P2C3 sequence listing.txt

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tttatctgcc atcaggcctg gctcttcca gggtttgatg caccttcaaa 1550
aactgtggat gatacagtcc cagattcaag tgattgaacg gaatgcctt 1600
gacaacccctc agtcactagt ggagatcaac ctggcacaca ataatcta 1650
attactgcct catgaccctt tcactccctt gcatcatcta gagcggatac 1700
atttacatca caacccttgg aactgttaact gtgacatact gtggctcagc 1750
tggggataa aagacatggc cccctcgaaac acagcttggt gtgccccgtg 1800
taacactcct cccaaatctaa aggggaggta cattggagag ctcgaccaga 1850
attacttcac atgctatgct ccggtgattt tggagcccc tgcagacctc 1900
aatgtcactg aaggcatggc agctgagctg aaatgtcggtt cttccacatc 1950
cctgacatct gtatcttggta ttactccaaa tggaaacagtc atgacacatg 2000
gggcgtacaa agtgcggata gctgtgctca gtgatggtaac gttaaatttc 2050
acaaatgtaa ctgtcaaga tacaggcatg tacacatgtt tggtagttaa 2100
ttccgttggg aataactactg cttcagccac cctgaatgtt actgcagcaa 2150
ccactactcc tttcttcttac tttcaaccg tcacagttaga gactatggaa 2200
ccgtctcagg atgaggcactg gaccacagat aacaatgtgg gtcccaactcc 2250
agtggtcgac tgggagacca ccaatgtgac cacctctctc acaccacaga 2300

P1618P2C3 sequence listing.txt

gcacaaggtc gacagagaaa accttcacca tcccagtgc tgatataaac 2350
agtgggatcc caggaattga tgaggtcatg aagactacca aaatcatcat 2400
tgggtgtttt gtggccatca cactcatggc tgcagtgtat ctggtcattt 2450
tctacaagat gaggaagcag caccatcgac aaaaccatca cgccccaaaca 2500
aggactgttg aaattattaa tgtggatgtat gagattacgg gagacacacc 2550
catggaaagc cacctgccc tgcctgctat cgagcatgag cacctaaatc 2600
actataactc atacaaatct cccttcaacc acacaacaac agttaacaca 2650
ataaaattcaa tacacagttc agtgcattgaa ccgttattga tccgaatgaa 2700
ctctaaagac aatgtacaag agactcaa at ctaaaacatt tacagagtta 2750
caaaaaacaa acaatcaaaa aaaaagacag tttattaaaa atgacacacaa 2800
tgactgggct aaatctactg ttcaaaaaa gtgtctttac aaaaaaacaa 2850
aaaaagaaaag aaatttattt attaaaaatt ctattgtat ctaaaggcaga 2900
caaaaa 2906

<210> 292

<211> 640

<212> PRT

<213> Homo Sapien

<400> 292

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Pro	Arg	Phe	Asn	Arg	Ala	Leu	Phe	Asp	Pro	Leu	Leu	Val	Val	Leu
						20			25				30	
Leu	Ala	Leu	Gln	Leu	Leu	Val	Val	Ala	Gly	Leu	Val	Arg	Ala	Gln
						35			40				45	
Thr	Cys	Pro	Ser	Val	Cys	Ser	Cys	Ser	Asn	Gln	Phe	Ser	Lys	Val
						50			55				60	
Ile	Cys	Val	Arg	Lys	Asn	Leu	Arg	Glu	Val	Pro	Asp	Gly	Ile	Ser
						65			70				75	
Thr	Asn	Thr	Arg	Leu	Leu	Asn	Leu	His	Glu	Asn	Gln	Ile	Gln	Ile
						80			85				90	
Ile	Lys	Val	Asn	Ser	Phe	Lys	His	Leu	Arg	His	Leu	Glu	Ile	Leu
						95			100				105	
Gln	Leu	Ser	Arg	Asn	His	Ile	Arg	Thr	Ile	Glu	Ile	Gly	Ala	Phe
						110			115				120	
Asn	Gly	Leu	Ala	Asn	Leu	Asn	Thr	Leu	Glu	Leu	Phe	Asp	Asn	Arg
						125			130				135	
Leu	Thr	Thr	Ile	Pro	Asn	Gly	Ala	Phe	Val	Tyr	Leu	Ser	Lys	Leu
						140			145				150	
Lys	Glu	Leu	Trp	Leu	Arg	Asn	Asn	Pro	Ile	Glu	Ser	Ile	Pro	Ser

P1618P2C3 sequence listing.txt

155 160 165

Tyr Ala Phe Asn Arg Ile Pro Ser Leu Arg Arg Leu Asp Leu Gly
 170 175 180

Glu Leu Lys Arg Leu Ser Tyr Ile Ser Glu Gly Ala Phe Glu Gly
 185 190 195

Leu Ser Asn Leu Arg Tyr Leu Asn Leu Ala Met Cys Asn Leu Arg
 200 205 210

Glu Ile Pro Asn Leu Thr Pro Leu Ile Lys Leu Asp Glu Leu Asp
 215 220 225

Leu Ser Gly Asn His Leu Ser Ala Ile Arg Pro Gly Ser Phe Gln
 230 235 240

Gly Leu Met His Leu Gln Lys Leu Trp Met Ile Gln Ser Gln Ile
 245 250 255

Gln Val Ile Glu Arg Asn Ala Phe Asp Asn Leu Gln Ser Leu Val
 260 265 270

Glu Ile Asn Leu Ala His Asn Asn Leu Thr Leu Leu Pro His Asp
 275 280 285

Leu Phe Thr Pro Leu His His Leu Glu Arg Ile His Leu His His
 290 295 300

Asn Pro Trp Asn Cys Asn Cys Asp Ile Leu Trp Leu Ser Trp Trp
 305 310 315

Ile Lys Asp Met Ala Pro Ser Asn Thr Ala Cys Cys Ala Arg Cys
 320 325 330

Asn Thr Pro Pro Asn Leu Lys Gly Arg Tyr Ile Gly Glu Leu Asp
 335 340 345

Gln Asn Tyr Phe Thr Cys Tyr Ala Pro Val Ile Val Glu Pro Pro
 350 355 360

Ala Asp Leu Asn Val Thr Glu Gly Met Ala Ala Glu Leu Lys Cys
 365 370 375

Arg Ala Ser Thr Ser Leu Thr Ser Val Ser Trp Ile Thr Pro Asn
 380 385 390

Gly Thr Val Met Thr His Gly Ala Tyr Lys Val Arg Ile Ala Val
 395 400 405

Leu Ser Asp Gly Thr Leu Asn Phe Thr Asn Val Thr Val Gln Asp
 410 415 420

Thr Gly Met Tyr Thr Cys Met Val Ser Asn Ser Val Gly Asn Thr
 425 430 435

Thr Ala Ser Ala Thr Leu Asn Val Thr Ala Ala Thr Thr Thr Pro
 440 445 450

Phe Ser Tyr Phe Ser Thr Val Thr Val Glu Thr Met Glu Pro Ser
 455 460 465

Gln Asp Glu Ala Arg Thr Thr Asp Asn Asn Val Gly Pro Thr Pro

P1618P2C3 sequence listing.txt
470 475 480

Val Val Asp Trp Glu Thr Thr Asn Val Thr Thr Ser Leu Thr Pro
485 490 495
Gln Ser Thr Arg Ser Thr Glu Lys Thr Phe Thr Ile Pro Val Thr
500 505 510
Asp Ile Asn Ser Gly Ile Pro Gly Ile Asp Glu Val Met Lys Thr
515 520 525
Thr Lys Ile Ile Ile Gly Cys Phe Val Ala Ile Thr Leu Met Ala
530 535 540
Ala Val Met Leu Val Ile Phe Tyr Lys Met Arg Lys Gln His His
545 550 555
Arg Gln Asn His His Ala Pro Thr Arg Thr Val Glu Ile Ile Asn
560 565 570
Val Asp Asp Glu Ile Thr Gly Asp Thr Pro Met Glu Ser His Leu
575 580 585
Pro Met Pro Ala Ile Glu His Glu His Leu Asn His Tyr Asn Ser
590 595 600
Tyr Lys Ser Pro Phe Asn His Thr Thr Thr Val Asn Thr Ile Asn
605 610 615
Ser Ile His Ser Ser Val His Glu Pro Leu Leu Ile Arg Met Asn
620 625 630
Ser Lys Asp Asn Val Gln Glu Thr Gln Ile
635 640

<210> 293
<211> 4053
<212> DNA
<213> Homo Sapien

<400> 293
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aaagaaggaa ttgaccgggc agcgcgaggg aggagcgcgc acgcgaccgc 150
gaggggcgggc gtgcaccctc ggctggaagt ttgtgccggg ccccgagcgc 200
gcgcggctg ggagcttcgg gtagagacct aggccgctgg acccgatga 250
gcgcgcccag cctccgtgcg cgccgcgcgg gttggggct gctgctgtgc 300
gcggtgctgg ggcgcgctgg ccggtccgac agcggcggtc gcgggaaact 350
cgggcagccc tctggggtag ccgcccagcgc cccatgcccc actacctgcc 400
gctgcctcgg ggacctgctg gactgcagtc gtaagcggct agcgcgtctt 450
cccgagccac tcccgtcctg ggtcgctcgg ctggacttaa gtcacaacag 500
attatctttc atcaaggcaa gttccatgag ccacctcaa agccttcgag 550

P1618P2C3 sequence listing.txt

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gtctcgcaa atattacact tctctcctt gctggaaaca ggattgttga 650
aatactccct gaacatctga aagagttca gtcccttcaa actttggacc 700
ttagcagcaa caatattca gagctccaaa ctgcattcc agccctacag 750
ctcaaatac tgtatctcaa cagcaaccga gtcacatcaa tggaacctgg 800
gtatggac aatttggcca acacactcct tgtgttaaag ctgaacagga 850
accgaatctc agctatccc cccaagatgt ttaaactgcc ccaactgcaa 900
catctcgaat tgaaccgaaa caagattaaa aatgttagatg gactgacatt 950
ccaaggcctt ggtgctctga agtctctgaa aatgcaaaga aatggagtaa 1000
cggaaacttat gnatggagct ttttggggc tgagcaacat gggaaatttg 1050
cagctggacc ataacaacct aacagagatt accaaaggct ggcttacgg 1100
cttgctgatg ctgcaggaac ttcatctcag cccaaatgcc atcaacagga 1150
tcagccctga tgcctggag ttctgccaga agctcagtga gctggaccta 1200
actttcaatc acttatcaag gtttagatgat tcaagcttcc ttggcctaag 1250
cttactaaat acactgcaca ttgggaacaa cagagtcagc tacattgctg 1300
atttgtgcctt ccggggcctt tccagttaa agactttgga tctgaagaac 1350
aatgaaattt cctggactat tgaagacatg aatggtgctt tctctggct 1400
tgacaaactg aggcgactga tactccaagg aaatcgatc cggttctatta 1450
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actgcaacaa ttgcattaa atacatcaag cctttgtgc gattgccagc 1600
taaaatggct cccacagtgg gtggcggaaa acaacttca gagctttgta 1650
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aaaagacaat gaactactgc atgatgctga aatggaaaat tatgcacacc 1900
tccggccca aggtggcgag gtgatggagt ataccaccat cttcggctg 1950
cgcgagggtgg aatttgcag tgagggaaa tatcagtgtg tcatctccaa 2000
tcactttggc tcatcctact ctgtcaaagc caagttaca gtaaatatgc 2050
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atggcacgct tggagtgtgc tgctgtgggg cacccagccc cccagatgc 2150

P1618P2C3 sequence listing.txt

ctggcagaag gatggggca cagactccc agctcacgg gagagacgca 2200
tgcgtgtat gcccgaggat gacgtgttct ttatcgatgaa tgtgaagata 2250
gaggacattg gggtatacag ctgcacagct cagaacagtg caggaagtat 2300
ttcagcaaat gcaactctga ctgtccctaga aacaccatca ttttgcggc 2350
cactgttggaa ccgaactgta accaaggag aaacagccgt cctacagtgc 2400
attgctggag gaagccctcc ccctaaactg aactggacca aagatgatag 2450
cccattggtg gtaaccgaga ggcactttt tgcagcaggc aatcagcttc 2500
tgattattgt ggactcagat gtcagtgtat ctggaaata cacatgttag 2550
atgtctaaca cccttggcac tgagagagga aacgtgcgcc tcagtgtat 2600
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atgacggatg ggccactgtg ggtgtcgtga tcatagccgt ggttgctgt 2700
gtggtgggca cgtcactcgt gtgggtggc atcatatacc acacaaggcg 2750
gaggaatgaa gattgcagca ttaccaacac agatgagacc aacttgccag 2800
cagatattcc tagtttttg tcatctcagg gaacgttagc tgacaggcag 2850
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atattgacaa tagcagtgaa gctgatgtgg aagctgccac agatctgttc 3000
ctttgtccgt tttgggatc cacaggccct atgtattgtt agggaaatgt 3050
gtatggctca gatccttttggaa acacatatca tacaggttgc agtcctgacc 3100
caagaacagt tttaatggac cactatgagc ccagttacat aaagaaaaag 3150
gagtgcattc catgttctca tccttcagaa gaatcctgac aacggagctt 3200
cagtaatata tcgtggccctt cacatgttagt gaaatgtactt aacactagtt 3250
actctcacaa tgaaggacct ggaatgaaaa atctgtgtct aaacaagtcc 3300
tcttttagatt ttagtgcaaa tccagagcca gcgtcggttgc cctcgagtaa 3350
ttctttcatg ggtacctttg gaaaagctct caggagacct caccttagatg 3400
cctattcaag ctttggacag ccatcagatt gtcagccaag agccctttat 3450
ttgaaagctc attctcccc agacttggac tctgggtcag aggaagatgg 3500
gaaagaaaagg acagatttc aggaagaaaa tcacattgtt acctttaaac 3550
agacttttaga aaactacagg actccaaatt ttcagtttca tgacttggac 3600
acatagactg aatgagacca aaggaaaagc ttaacataact acctcaagtg 3650
aacttttatt taaaagagag agaatcttat gtttttaaa tggagttatg 3700

P1618P2C3 sequence listing.txt

aattttaaaa ggataaaaat gctttattta tacagatgaa cccaaattac 3750
aaaaagttat gaaaattttt atactggaa tgatgctcat ataagaatac 3800
ctttttaaac tatttttaa ctttgttta tgcaaaaaag tatcttacgt 3850
aaattaatga tataaatcat gattattttt tgtattttt taatgccaga 3900
tttctttta tggaaaatga gttactaaag cattttaaat aatacctgcc 3950
ttgtaccatt tttaaatag aagttacttc attatatttt gcacattata 4000
tttaataaaaa tgtgtcaatt tgaaaaaaaaaaaaaaa 4050
aaa 4053

<210> 294

<211> 1119

<212> PRT

<213> Homo Sapien

<400> 294

Met	Ser	Ala	Pro	Ser	Leu	Arg	Ala	Arg	Ala	Ala	Gly	Leu	Gly	Leu
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Leu	Leu	Cys	Ala	Val	Leu	Gly	Arg	Ala	Gly	Arg	Ser	Asp	Ser	Gly
				20					25				30	
Gly	Arg	Gly	Glu	Leu	Gly	Gln	Pro	Ser	Gly	val	Ala	Ala	Glu	Arg
				35					40				45	
Pro	Cys	Pro	Thr	Thr	Cys	Arg	Cys	Leu	Gly	Asp	Leu	Leu	Asp	Cys
				50					55				60	
Ser	Arg	Lys	Arg	Leu	Ala	Arg	Leu	Pro	Glu	Pro	Leu	Pro	Ser	Trp
				65					70				75	
Val	Ala	Arg	Leu	Asp	Leu	Ser	His	Asn	Arg	Leu	Ser	Phe	Ile	Lys
				80					85				90	
Ala	Ser	Ser	Met	Ser	His	Leu	Gln	Ser	Leu	Arg	Glu	Val	Lys	Leu
				95					100				105	
Asn	Asn	Asn	Glu	Leu	Glu	Thr	Ile	Pro	Asn	Leu	Gly	Pro	Val	Ser
				110					115				120	
Ala	Asn	Ile	Thr	Leu	Leu	Ser	Leu	Ala	Gly	Asn	Arg	Ile	Val	Glu
				125					130				135	
Ile	Leu	Pro	Glu	His	Leu	Lys	Glu	Phe	Gln	Ser	Leu	Glu	Thr	Leu
				140					145				150	
Asp	Leu	Ser	Ser	Asn	Asn	Ile	Ser	Glu	Leu	Gln	Thr	Ala	Phe	Pro
				155					160				165	
Ala	Leu	Gln	Leu	Lys	Tyr	Leu	Tyr	Leu	Asn	Ser	Asn	Arg	Val	Thr
				170					175				180	
Ser	Met	Glu	Pro	Gly	Tyr	Phe	Asp	Asn	Leu	Ala	Asn	Thr	Leu	Leu
				185					190				195	
Val	Leu	Lys	Leu	Asn	Arg	Asn	Arg	Ile	Ser	Ala	Ile	Pro	Pro	Lys
				200					205				210	

P1618P2C3 sequence listing.txt

Met Phe Lys Leu Pro Gln Leu Gln His Leu Glu Leu Asn Arg Asn
215 220 225
Lys Ile Lys Asn Val Asp Gly Leu Thr Phe Gln Gly Leu Gly Ala
230 235 240
Leu Lys Ser Leu Lys Met Gln Arg Asn Gly Val Thr Lys Leu Met
245 250 255
Asp Gly Ala Phe Trp Gly Leu Ser Asn Met Glu Ile Leu Gln Leu
260 265 270
Asp His Asn Asn Leu Thr Glu Ile Thr Lys Gly Trp Leu Tyr Gly
275 280 285
Leu Leu Met Leu Gln Glu Leu His Leu Ser Gln Asn Ala Ile Asn
290 295 300
Arg Ile Ser Pro Asp Ala Trp Glu Phe Cys Gln Lys Leu Ser Glu
305 310 315
Leu Asp Leu Thr Phe Asn His Leu Ser Arg Leu Asp Asp Ser Ser
320 325 330
Phe Leu Gly Leu Ser Leu Leu Asn Thr Leu His Ile Gly Asn Asn
335 340 345
Arg Val Ser Tyr Ile Ala Asp Cys Ala Phe Arg Gly Leu Ser Ser
350 355 360
Leu Lys Thr Leu Asp Leu Lys Asn Asn Glu Ile Ser Trp Thr Ile
365 370 375
Glu Asp Met Asn Gly Ala Phe Ser Gly Leu Asp Lys Leu Arg Arg
380 385 390
Leu Ile Leu Gln Gly Asn Arg Ile Arg Ser Ile Thr Lys Lys Ala
395 400 405
Phe Thr Gly Leu Asp Ala Leu Glu His Leu Asp Leu Ser Asp Asn
410 415 420
Ala Ile Met Ser Leu Gln Gly Asn Ala Phe Ser Gln Met Lys Lys
425 430 435
Leu Gln Gln Leu His Leu Asn Thr Ser Ser Leu Leu Cys Asp Cys
440 445 450
Gln Leu Lys Trp Leu Pro Gln Trp Val Ala Glu Asn Asn Phe Gln
455 460 465
Ser Phe Val Asn Ala Ser Cys Ala His Pro Gln Leu Leu Lys Gly
470 475 480
Arg Ser Ile Phe Ala Val Ser Pro Asp Gly Phe Val Cys Asp Asp
485 490 495
Phe Pro Lys Pro Gln Ile Thr Val Gln Pro Glu Thr Gln Ser Ala
500 505 510
Ile Lys Gly Ser Asn Leu Ser Phe Ile Cys Ser Ala Ala Ser Ser
515 520 525

P1618P2C3 sequence listing.txt

Ser	Asp	Ser	Pro	Met	Thr	Phe	Ala	Trp	Lys	Lys	Asp	Asn	Glu	Leu
				530					535					540
Leu	His	Asp	Ala	Glu	Met	Glu	Asn	Tyr	Ala	His	Leu	Arg	Ala	Gln
				545				550						555
Gly	Gly	Glu	Val	Met	Glu	Tyr	Thr	Thr	Ile	Leu	Arg	Leu	Arg	Glu
				560				565						570
Val	Glu	Phe	Ala	Ser	Glu	Gly	Lys	Tyr	Gln	Cys	Val	Ile	Ser	Asn
				575				580						585
His	Phe	Gly	Ser	Ser	Tyr	Ser	Val	Lys	Ala	Lys	Leu	Thr	Val	Asn
				590				595						600
Met	Leu	Pro	Ser	Phe	Thr	Lys	Thr	Pro	Met	Asp	Leu	Thr	Ile	Arg
				605				610						615
Ala	Gly	Ala	Met	Ala	Arg	Leu	Glu	Cys	Ala	Ala	Val	Gly	His	Pro
				620				625						630
Ala	Pro	Gln	Ile	Ala	Trp	Gln	Lys	Asp	Gly	Gly	Thr	Asp	Phe	Pro
				635				640						645
Ala	Ala	Arg	Glu	Arg	Arg	Met	His	Val	Met	Pro	Glu	Asp	Asp	val
				650				655						660
Phe	Phe	Ile	Val	Asp	Val	Lys	Ile	Glu	Asp	Ile	Gly	Val	Tyr	Ser
				665				670						675
Cys	Thr	Ala	Gln	Asn	Ser	Ala	Gly	Ser	Ile	Ser	Ala	Asn	Ala	Thr
				680				685						690
Leu	Thr	Val	Leu	Glu	Thr	Pro	Ser	Phe	Leu	Arg	Pro	Leu	Leu	Asp
				695				700						705
Arg	Thr	Val	Thr	Lys	Gly	Glu	Thr	Ala	Val	Leu	Gln	Cys	Ile	Ala
				710				715						720
Gly	Gly	Ser	Pro	Pro	Pro	Lys	Leu	Asn	Trp	Thr	Lys	Asp	Asp	Ser
				725				730						735
Pro	Leu	Val	Val	Thr	Glu	Arg	His	Phe	Phe	Ala	Ala	Gly	Asn	Gln
				740				745						750
Leu	Leu	Ile	Ile	Asp	Ser	Asp	Val	Ser	Asp	Ala	Gly	Lys	Tyr	
				755				760						765
Thr	Cys	Glu	Met	Ser	Asn	Thr	Leu	Gly	Thr	Glu	Arg	Gly	Asn	Val
				770				775						780
Arg	Leu	Ser	Val	Ile	Pro	Thr	Pro	Thr	Cys	Asp	Ser	Pro	Gln	Met
				785				790						795
Thr	Ala	Pro	Ser	Leu	Asp	Asp	Asp	Gly	Trp	Ala	Thr	Val	Gly	val
				800				805						810
Val	Ile	Ile	Ala	Val	Val	Cys	Cys	Val	Val	Gly	Thr	Ser	Leu	Val
				815				820						825
Trp	Val	Val	Ile	Ile	Tyr	His	Thr	Arg	Arg	Arg	Asn	Glu	Asp	Cys
				830				835						840

P1618P2C3 sequence listing.txt

Ser Ile Thr Asn Thr Asp Glu Thr Asn Leu Pro Ala Asp Ile Pro
845 850 855
Ser Tyr Leu Ser Ser Gln Gly Thr Leu Ala Asp Arg Gln Asp Gly
860 865 870
Tyr Val Ser Ser Glu Ser Gly Ser His His Gln Phe Val Thr Ser
875 880 885
Ser Gly Ala Gly Phe Phe Leu Pro Gln His Asp Ser Ser Gly Thr
890 895 900
Cys His Ile Asp Asn Ser Ser Glu Ala Asp Val Glu Ala Ala Thr
905 910 915
Asp Leu Phe Leu Cys Pro Phe Leu Gly Ser Thr Gly Pro Met Tyr
920 925 930
Leu Lys Gly Asn Val Tyr Gly Ser Asp Pro Phe Glu Thr Tyr His
935 940 945
Thr Gly Cys Ser Pro Asp Pro Arg Thr Val Leu Met Asp His Tyr
950 955 960
Glu Pro Ser Tyr Ile Lys Lys Lys Glu Cys Tyr Pro Cys Ser His
965 970 975
Pro Ser Glu Glu Ser Cys Glu Arg Ser Phe Ser Asn Ile Ser Trp
980 985 990
Pro Ser His Val Arg Lys Leu Leu Asn Thr Ser Tyr Ser His Asn
995 1000 1005
Glu Gly Pro Gly Met Lys Asn Leu Cys Leu Asn Lys Ser Ser Leu
1010 1015 1020
Asp Phe Ser Ala Asn Pro Glu Pro Ala Ser Val Ala Ser Ser Asn
1025 1030 1035
Ser Phe Met Gly Thr Phe Gly Lys Ala Leu Arg Arg Pro His Leu
1040 1045 1050
Asp Ala Tyr Ser Ser Phe Gly Gln Pro Ser Asp Cys Gln Pro Arg
1055 1060 1065
Ala Phe Tyr Leu Lys Ala His Ser Ser Pro Asp Leu Asp Ser Gly
1070 1075 1080
Ser Glu Glu Asp Gly Lys Glu Arg Thr Asp Phe Gln Glu Glu Asn
1085 1090 1095
His Ile Cys Thr Phe Lys Gln Thr Leu Glu Asn Tyr Arg Thr Pro
1100 1105 1110
Asn Phe Gln Ser Tyr Asp Leu Asp Thr
1115
<210> 295
<211> 18
<212> DNA
<213> Artificial Sequence

P1618P2C3 sequence listing.txt

<220>
<223> Synthetic oligonucleotide Probe

<400> 295
ggaaccgaat ctcagcta 18

<210> 296
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 296
cctaaactga actggacca 19

<210> 297
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 297
ggctggagac actgaacct 19

<210> 298
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 298
acagctgcac agctcagaac agtg 24

<210> 299
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 299
cattcccaagt ataaaaattt tc 22

<210> 300
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 300
gggtcttgggt gaatgagg 18

<210> 301
<211> 24

P1618P2C3 sequence listing.txt

<212> DNA
<213> Artificial sequence

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<223> Synthetic oligonucleotide Probe

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<210> 302
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide Probe

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<210> 303
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 303
gccttgaca accttcagtc actagtgg 28

<210> 304
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 304
ccccatgtgt ccatgactgt tccc 24

<210> 305
<211> 45
<212> DNA
<213> Artificial Sequence

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<223> Synthetic oligonucleotide Probe

<400> 305
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<210> 306
<211> 24
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<223> Synthetic oligonucleotide Probe

<400> 306
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P1618P2C3 sequence listing.txt

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<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 307
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<210> 308
<211> 24
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<220>
<223> Synthetic Oligonucleotide Probe

<400> 308
actccaaagga aatcgatcc gttc 24

<210> 309
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 309
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<210> 310
<211> 3296
<212> DNA
<213> Homo Sapien

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ctgctccacg aggcccaact ggtgtgaacc gggagagccc ctgggtggtc 200
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agagaacgaa tttgcggagg aggagccggt gctggtaactg agccctgagg 600

P1618P2C3 sequence listing.txt

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P1618P2C3 sequence listing.txt

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<223> Synthetic Oligonucleotide Probe

<400> 311

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<210> 312

<211> 22

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P1618P2C3 sequence listing.txt

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<223> synthetic Oligonucleotide Probe

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tggcctatgt cgttatggtg ggaggattga ctgctgtgg ggctgggctc 350
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gtaagcacag gtgc当地 gaac acttacggca gctacaatgtt ctactgtctc 550
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cgtacgtggg tcctacaatgtt gcaaataatgtt agaaggatac cagggtgatg 950
gactgacttg tgtgtatatc ccaaaaatgtt tgattgaacc ttcaaggatcca 1000
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P1618P2C3 sequence listing.txt

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cctgccaaca gagctcagaa cacctctacc acctacaacc ccagaaaggc 1250
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P1618P2C3 sequence listing.txt

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aat 3003

<210> 315

<211> 509

<212> PRT

<213> Homo Sapien

<400> 315

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Ser	Ser	Ile	Gly	Leu	Cys	Arg	Tyr	Gly	Gly	Arg	Ile	Asp	Cys	Cys
				35				40						45
Trp	Gly	Trp	Ala	Arg	Gln	Ser	Trp	Gly	Gln	Cys	Gln	Pro	Val	Cys
				50				55						60
Gln	Pro	Arg	Cys	Lys	His	Gly	Glu	Cys	Ile	Gly	Pro	Asn	Lys	Cys
				65				70						75
Lys	Cys	His	Pro	Gly	Tyr	Ala	Gly	Lys	Thr	Cys	Asn	Gln	Asp	Leu
				80				85						90
Asn	Glu	Cys	Gly	Leu	Lys	Pro	Arg	Pro	Cys	Lys	His	Arg	Cys	Met
				95				100						105
Asn	Thr	Tyr	Gly	Ser	Tyr	Lys	Cys	Tyr	Cys	Leu	Asn	Gly	Tyr	Met
				110				115						120
Leu	Met	Pro	Asp	Gly	Ser	Cys	Ser	Ser	Ala	Leu	Thr	Cys	Ser	Met
				125				130						135
Ala	Asn	Cys	Gln	Tyr	Gly	Cys	Asp	Val	Val	Lys	Gly	Gln	Ile	Arg
				140				145						150
Cys	Gln	Cys	Pro	Ser	Pro	Gly	Leu	His	Leu	Ala	Pro	Asp	Gly	Arg
				155				160						165
Thr	Cys	Val	Asp	Val	Asp	Glu	Cys	Ala	Thr	Gly	Arg	Ala	Ser	Cys
				170				175						180
Pro	Arg	Phe	Arg	Gln	Cys	Val	Asn	Thr	Phe	Gly	Ser	Tyr	Ile	Cys
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P1618P2C3 sequence listing.txt

Lys Cys His Lys Gly Phe Asp Leu Met Tyr Ile Gly Gly Lys Tyr
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Gln Cys His Asp Ile Asp Glu Cys Ser Leu Gly Gln Tyr Gln Cys
215 220 225
Ser Ser Phe Ala Arg Cys Tyr Asn Val Arg Gly Ser Tyr Lys Cys
230 235 240
Lys Cys Lys Glu Gly Tyr Gln Gly Asp Gly Leu Thr Cys Val Tyr
245 250 255
Ile Pro Lys Val Met Ile Glu Pro Ser Gly Pro Ile His Val Pro
260 265 270
Lys Gly Asn Gly Thr Ile Leu Lys Gly Asp Thr Gly Asn Asn Asn
275 280 285
Trp Ile Pro Asp Val Gly Ser Thr Trp Trp Pro Pro Lys Thr Pro
290 295 300
Tyr Ile Pro Pro Ile Ile Thr Asn Arg Pro Thr Ser Lys Pro Thr
305 310 315
Thr Arg Pro Thr Pro Lys Pro Thr Pro Ile Pro Thr Pro Pro Pro
320 325 330
Pro Pro Pro Leu Pro Thr Glu Leu Arg Thr Pro Leu Pro Pro Thr
335 340 345
Thr Pro Glu Arg Pro Thr Thr Gly Leu Thr Thr Ile Ala Pro Ala
350 355 360
Ala Ser Thr Pro Pro Gly Gly Ile Thr Val Asp Asn Arg Val Gln
365 370 375
Thr Asp Pro Gln Lys Pro Arg Gly Asp Val Phe Ser Val Leu Val
380 385 390
His Ser Cys Asn Phe Asp His Gly Leu Cys Gly Trp Ile Arg Glu
395 400 405
Lys Asp Asn Asp Leu His Trp Glu Pro Ile Arg Asp Pro Ala Gly
410 415 420
Gly Gln Tyr Leu Thr Val Ser Ala Ala Lys Ala Pro Gly Gly Lys
425 430 435
Ala Ala Arg Leu Val Leu Pro Leu Gly Arg Leu Met His Ser Gly
440 445 450
Asp Leu Cys Leu Ser Phe Arg His Lys Val Thr Gly Leu His Ser
455 460 465
Gly Thr Leu Gln Val Phe Val Arg Lys His Gly Ala His Gly Ala
470 475 480
Ala Leu Trp Gly Arg Asn Gly Gly His Gly Trp Arg Gln Thr Gln
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P1618P2C3 sequence listing.txt

<210> 316
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide Probe

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<210> 317
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 317
ttgcacttgt aggaccacg tacg 24

<210> 318
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide Probe

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<210> 319
<211> 2110
<212> DNA
<213> Homo Sapien

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P1618P2C3 sequence listing.txt

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agacttgc acacttaagg aaatgactat taaagtctta TTTTTATTT 2050
tttcaaggaa agatggattc aaataaatta ttctgtttt gctttaaaa 2100
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P1618P2C3 sequence listing.txt

<211> 450

<212> PRT

<213> Homo Sapien

<400> 320

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20 25 30

Gly Val Arg Gly Gln Ala Leu Tyr Leu Pro Val His Tyr Gly Phe
35 40 45

His Thr Pro Ala Ser Asp Ile Gln Ile Ile Trp Leu Phe Glu Arg
50 55 60

Pro His Thr Met Pro Lys Tyr Leu Leu Gly Ser Val Asn Lys Ser
65 70 75

Val Val Pro Asp Leu Glu Tyr Gln His Lys Phe Thr Met Met Pro
80 85 90

Pro Asn Ala Ser Leu Leu Ile Asn Pro Leu Gln Phe Pro Asp Glu
95 100 105

Gly Asn Tyr Ile Val Lys Val Asn Ile Gln Gly Asn Gly Thr Leu
110 115 120

Ser Ala Ser Gln Lys Ile Gln Val Thr Val Asp Asp Pro Val Thr
125 130 135

Lys Pro Val Val Gln Ile His Pro Pro Ser Gly Ala Val Glu Tyr
140 145 150

Val Gly Asn Met Thr Leu Thr Cys His Val Glu Gly Gly Thr Arg
155 160 165

Leu Ala Tyr Gln Trp Leu Lys Asn Gly Arg Pro Val His Thr Ser
170 175 180

Ser Thr Tyr Ser Phe Ser Pro Gln Asn Asn Thr Leu His Ile Ala
185 190 195

Pro Val Thr Lys Glu Asp Ile Gly Asn Tyr Ser Cys Leu Val Arg
200 205 210

Asn Pro Val Ser Glu Met Glu Ser Asp Ile Ile Met Pro Ile Ile
215 220 225

Tyr Tyr Gly Pro Tyr Gly Leu Gln Val Asn Ser Asp Lys Gly Leu
230 235 240

Lys Val Gly Glu Val Phe Thr Val Asp Leu Gly Glu Ala Ile Leu
245 250 255

Phe Asp Cys Ser Ala Asp Ser His Pro Pro Asn Thr Tyr Ser Trp
260 265 270

Ile Arg Arg Thr Asp Asn Thr Thr Tyr Ile Ile Lys His Gly Pro
275 280 285

Arg Leu Glu Val Ala Ser Glu Lys Val Ala Gln Lys Thr Met Asp
Page 207

P1618P2C3 sequence listing.txt
290 295 300

Tyr Val Cys Cys Ala Tyr Asn Asn Ile Thr Gly Arg Gln Asp Glu
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320 325 330
Ala Gln Lys Gly Lys Ser Leu Ser Pro Leu Ala Ser Ile Thr Gly
335 340 345
Ile Ser Leu Phe Leu Ile Ile Ser Met Cys Leu Leu Phe Leu Trp
350 355 360
Lys Lys Tyr Gln Pro Tyr Lys Val Ile Lys Gln Lys Leu Glu Gly
365 370 375
Arg Pro Glu Thr Glu Tyr Arg Lys Ala Gln Thr Phe Ser Gly His
380 385 390
Glu Asp Ala Leu Asp Asp Phe Gly Ile Tyr Glu Phe Val Ala Phe
395 400 405
Pro Asp Val Ser Gly Val Ser Arg Ile Pro Ser Arg Ser Val Pro
410 415 420
Ala Ser Asp Cys Val Ser Gly Gln Asp Leu His Ser Thr Val Tyr
425 430 435
Glu Val Ile Gln His Ile Pro Ala Gln Gln Gln Asp His Pro Glu
440 445 450

<210> 321
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 321
gatcctgtca caaagccagt ggtgc 25

<210> 322
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 322
caactgacagg gttcctcacc cagg 24

<210> 323
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 323

P1618P2C3 sequence listing.txt

ctccctctgg gctgtggagt atgtgggaa catgaccctg acatg 45

<210> 324

<211> 2397

<212> DNA

<213> Homo Sapien

<400> 324

gcaaggcgcc aaatggcgcc ctccggaggt cttgcagttc ccctggcagt 50

cctgggtctg ttgcgttggg gtgcctccctg gacgcacggg cgccggagca 100

acgttcgcgt catcacggac gagaactgga gagaactgct ggaaggagac 150

tggatgatag aatttatgc cccgtggtgc cctgcttgct aaaaatcttca 200

accggaatgg gaaagtttg ctgaatgggg agaagatctt gaggttaata 250

ttgcgaaagt agatgtcaca gagcagccag gactgagtgg acggtttac 300

ataactgctc ttcctactat ttatcattgt aaagatggtg aattnaggcg 350

ctatcagggt ccaaggacta agaaggactt cataaaacttt ataagtata 400

aagagtggaa gagtattgag cccgtttcat catggttgg tccaggttct 450

gttctgatga gtagtatgtc agcactctt cagctatcta tgtggatcag 500

gacgtgccat aactactta ttgaagacct tggattgcca gtgtggggat 550

catatactgt ttttgctta gcaactctgt tttccggact gttatttagga 600

ctctgtatga tatttgtggc agattgcctt tgtccttcaa aaaggcgcag 650

accacagcca tacccataacc cttcaaaaaa attattatca gaatctgcac 700

aacctttgaa aaaagtggag gaggaacaag aggccgatga agaagatgtt 750

tcagaagaag aagctgaaag taaagaagga acaaacaag actttccaca 800

gaatgccata agacaacgct ctctgggtcc atcattggcc acagataaat 850

cctagttaaa ttttatagtt atcttaatat tatgattttg ataaaaacag 900

aagattgatc attttgggg gtttgaagtg aactgtgact ttttgaata 950

ttgcagggtt cagtctagat tgtcattaaa ttgaagagtc tacattcaga 1000

acataaaagc actaggata caagttgaa atatgatttca agcacagttat 1050

gatggtttaa atagttctct aatttttggaa aaatcgtgcc aagcaataag 1100

atttatgtat atttggtaa taataaccta tttcaagtct gagttttgaa 1150

aatttacatt tcccaagtat tgcatatttg aggtatttaa gaagattatt 1200

tttagagaaaa atatttctca tttgatataa tttttctctg tttcactgtg 1250

tgaaaaaaaaag aagatatttc ccataaaatgg gaagttgccc cattgtctca 1300

agaaatgtgt attcagtga caatttcgtg gtcttttag aggtatattc 1350

caaaatttcc ttgtatfffft aggttatgca actaataaaaa actaccttac 1400

P1618P2C3 sequence listing.txt

attaaattaat tacagtttc tacacatggt aatacaggat atgctactga 1450
tttaggaagt ttttaagttc atggatttct cttgattcca acaaagttt 1500
attttctctt gtattttct tacttactat gggttacatt ttttattttt 1550
caaattggat gataatttct tgaaaacatt ttttatgttt tagtaaacag 1600
tatttttttg ttgtttcaaa ctgaagttt ctgagagatc catcaaattt 1650
aacaatctgt tgtaatttaa aattttggcc actttttca gattttacat 1700
cattcttgct gaacttcaac ttgaaaattgt ttttttttc tttttggatg 1750
tgaaggtgaa cattccgtat ttttgtctga tgtgaaaaag ctttggatt 1800
ttacattttg aaaattcaaa gaagcttaat ataaaaagttt gcattctact 1850
cagggaaaaag catcttctt tatatgtctt aaatgtatTT ttgcctcat 1900
atacagaaaag ttcttaattt attttacagt ctgtaatgct tgatgtttt 1950
aaataataac atttttatTT tttttaaaag acaaacttca tattatcctg 2000
tgttcttcc tgactggtaa tattgtgtgg gatttcacag gtaaaagtca 2050
gttagatgga acatTTtagt gtatTTtac tccttaaaga gctagaatac 2100
atagtttca ccttaaaaga agggggaaaa tcataaatac aatgaatcaa 2150
ctgaccatta cgttagtagac aatttctgtt atgtccccctt ctttcttaggc 2200
tctgttgctg tgtgaatcca ttagatttac agtatcgtaa tatacaagtt 2250
ttctttaaag ccctctcctt tagaatttaa aatattgtac cattaaagag 2300
tttggatgtg taacttgtga tgccttagaa aaatatccta agcacaaaaat 2350
aaaccttctt aaccacttca ttAAAGCTGA aaaaaaaaaa aaaaaaaa 2397

<210> 325
<211> 280
<212> PRT
<213> Homo Sapien

<400> 325
Met Ala Pro Ser Gly Ser Leu Ala Val Pro Leu Ala Val Leu Val
1 5 10 15
Leu Leu Leu Trp Gly Ala Pro Trp Thr His Gly Arg Arg Ser Asn
20 25 30
Val Arg Val Ile Thr Asp Glu Asn Trp Arg Glu Leu Leu Glu Gly
35 40 45
Asp Trp Met Ile Glu Phe Tyr Ala Pro Trp Cys Pro Ala Cys Gln
50 55 60
Asn Leu Gln Pro Glu Trp Glu Ser Phe Ala Glu Trp Gly Glu Asp
65 70 75
Leu Glu Val Asn Ile Ala Lys Val Asp Val Thr Glu Gln Pro Gly

P1618P2C3 sequence listing.txt

80

85

90

Leu	Ser	Gly	Arg	Phe	Ile	Ile	Thr	Ala	Leu	Pro	Thr	Ile	Tyr	His
95									100					105
Cys	Lys	Asp	Gly	Glu	Phe	Arg	Arg	Tyr	Gln	Gly	Pro	Arg	Thr	Lys
	110								115					120
Lys	Asp	Phe	Ile	Asn	Phe	Ile	Ser	Asp	Lys	Glu	Trp	Lys	Ser	Ile
	125								130					135
Glu	Pro	Val	Ser	Ser	Trp	Phe	Gly	Pro	Gly	Ser	Val	Leu	Met	Ser
	140								145					150
Ser	Met	Ser	Ala	Leu	Phe	Gln	Leu	Ser	Met	Trp	Ile	Arg	Thr	Cys
	155								160					165
His	Asn	Tyr	Phe	Ile	Glu	Asp	Leu	Gly	Leu	Pro	Val	Trp	Gly	Ser
	170								175					180
Tyr	Thr	Val	Phe	Ala	Leu	Ala	Thr	Leu	Phe	Ser	Gly	Leu	Leu	Leu
	185								190					195
Gly	Leu	Cys	Met	Ile	Phe	Val	Ala	Asp	Cys	Leu	Cys	Pro	Ser	Lys
	200								205					210
Arg	Arg	Arg	Pro	Gln	Pro	Tyr	Pro	Tyr	Pro	Ser	Lys	Lys	Leu	Leu
	215								220					225
Ser	Glu	Ser	Ala	Gln	Pro	Leu	Lys	Lys	Val	Glu	Glu	Glu	Gln	Glu
	230								235					240
Ala	Asp	Glu	Glu	Asp	Val	Ser	Glu	Glu	Glu	Ala	Glu	Ser	Lys	Glu
	245								250					255
Gly	Thr	Asn	Lys	Asp	Phe	Pro	Gln	Asn	Ala	Ile	Arg	Gln	Arg	Ser
	260								265					270
Leu	Gly	Pro	Ser	Leu	Ala	Thr	Asp	Lys	Ser					
	275								280					

<210> 326

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 326

tgaggtgggc aagcggcgaa atg 23

<210> 327

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 327

tatgtggatc aggacgtgcc 20

P1618P2C3 sequence listing.txt

<210> 328
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 328
tgcaagggttc agtcttagatt g 21

<210> 329
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 329
ttgaaggaca aaggcaatct gccac 25

<210> 330
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 330
ggagtcttgc agttcccttg gcagtcctgg tgctgttgct ttggg 45

<210> 331
<211> 2168
<212> DNA
<213> Homo Sapien

<400> 331
gcgagtgtcc agctgcggag acccgtata attcgtaac taattcaaca 50
aacgggaccc ttctgtgtgc cagaaaccgc aagcagttgc taacccagtg 100
ggacaggcgg attggaagag cgaaaaggc tcggccaga gcagtgtgac 150
acttccctct gtgaccatga aactctgggt gtctgcattg ctgatggcct 200
ggtttggtgt cctgagctgt gtgcaggccg aattcttcac ctctattggg 250
cacatgactg acctgattta tgcagagaaa gagctggtgc agtctctgaa 300
agagtacatc cttgtggagg aagccaagct ttccaagatt aagagctggg 350
ccaacaaaat ggaagccttg actagcaagt cagctgctga tgctgagggc 400
tacctggctc accctgtgaa tgcctacaaa ctggtaagc ggctaaacac 450
agactggcct gcgctggagg accttgcct gcaggactca gctgcagggt 500
ttatcgccaa cctctctgtc cagcggcagt tcttccccac tcatgaggac 550
gagataggag ctgccaaagc cctgatgaga cttcaggaca catacaggct 600

P1618P2C3 sequence listing.txt

ggacccaggc acaattcca gaggggaaact tccaggaacc aagtaccagg 650
caatgctgag tgtggatgac tgcttggga tgggccgctc ggcctacaat 700
gaaggggact attatcatac ggtgttgtgg atggagcagg tgctaaagca 750
gcttgatgcc ggggaggagg ccaccacaac caagtcacag gtgctggact 800
acctcagcta tgctgtcttc cagttgggtg atctgcaccc tgccctggag 850
ctcacccgccc gcctgccttc ccttgcacca agccacgaac gagctggagg 900
gaatctgcgg tactttgagc agttatttgg aagaagagaga gaaaaaacgt 950
taacaaatca gacagaagct gagctagcaa ccccagaagg catctatgag 1000
aggcctgtgg actacctgcc tgagagggat gtttacgaga gcctctgtcg 1050
tggggagggt gtcaaactga caccggtag acagaagagg ctttctgtta 1100
ggtaccacca tggcaacagg gccccacagc tgctcattgc ccccttcaaa 1150
gaggaggacg agtgggacag cccgcacatc gtcaggtact acgatgtcat 1200
gtctgatgag gaaatcgaga gnatcaagga gatgcaaaaa cctaaacttg 1250
cacgagccac cggtcgat cccaagacag gagtccacac tgtcgccagc 1300
taccgggttt ccaaaagctc ctggctagag gaagatgatg accctgttgt 1350
ggcccgagta aatcgatcgga tgcatcgat cacagggtta acagtaaaga 1400
ctgcagaatt gttacaggtt gcaaattatg gagttggagg acagtatgaa 1450
ccgcacttcg acttctctag gcgacctttt gacagcggcc tcaaaacaga 1500
ggggaatagg ttagcgacgt ttcttaacta catgagtgtat gttagaagctg 1550
gtggtgccac cgtctccct gatctgggg ctgcaatttg gcctaagaag 1600
ggtagctg tggctggta caacctttt cggagcgggg aaggtgacta 1650
ccgaacaaga catgctgcct gccctgtgct tgtggctgc aagtgggtct 1700
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ctatcaggct gattttgaa gaaatgaatg tttgtctggaa gcagagggag 1900
accatactag ggcgactcct gtgtgactga agtcccagcc cttccattca 1950
gcctgtgcca tccctggccc caaggctagg atcaaagtgg ctgcagcaga 2000
gttagctgtc tagcgccctag caaggtgcct ttgtacccca ggtgttttag 2050
gtgtgagatg ttccatgaa ccaaagttct gataccttgtt ttacatgttt 2100
gttttatgg catttcatac tattgtggct ttaccaaaaa ataaaatgtc 2150
cctaccagaa aaaaaaaaaa 2168

P1618P2C3 sequence listing.txt

<210> 332
<211> 533
<212> PRT
<213> Homo Sapien

<400> 332
Met Lys Leu Trp Val Ser Ala Leu Leu Met Ala Trp Phe Gly Val
1 5 10 15
Leu Ser Cys Val Gln Ala Glu Phe Phe Thr Ser Ile Gly His Met
20 25 30
Thr Asp Leu Ile Tyr Ala Glu Lys Glu Leu Val Gln Ser Leu Lys
35 40 45
Glu Tyr Ile Leu Val Glu Glu Ala Lys Leu Ser Lys Ile Lys Ser
50 55 60
Trp Ala Asn Lys Met Glu Ala Leu Thr Ser Lys Ser Ala Ala Asp
65 70 75
Ala Glu Gly Tyr Leu Ala His Pro Val Asn Ala Tyr Lys Leu Val
80 85 90
Lys Arg Leu Asn Thr Asp Trp Pro Ala Leu Glu Asp Leu Val Leu
95 100 105
Gln Asp Ser Ala Ala Gly Phe Ile Ala Asn Leu Ser Val Gln Arg
110 115 120
Gln Phe Phe Pro Thr Asp Glu Asp Glu Ile Gly Ala Ala Lys Ala
125 130 135
Leu Met Arg Leu Gln Asp Thr Tyr Arg Leu Asp Pro Gly Thr Ile
140 145 150
Ser Arg Gly Glu Leu Pro Gly Thr Lys Tyr Gln Ala Met Leu Ser
155 160 165
Val Asp Asp Cys Phe Gly Met Gly Arg Ser Ala Tyr Asn Glu Gly
170 175 180
Asp Tyr Tyr His Thr Val Leu Trp Met Glu Gln Val Leu Lys Gln
185 190 195
Leu Asp Ala Gly Glu Glu Ala Thr Thr Thr Lys Ser Gln Val Leu
200 205 210
Asp Tyr Leu Ser Tyr Ala Val Phe Gln Leu Gly Asp Leu His Arg
215 220 225
Ala Leu Glu Leu Thr Arg Arg Leu Leu Ser Leu Asp Pro Ser His
230 235 240
Glu Arg Ala Gly Gly Asn Leu Arg Tyr Phe Glu Gln Leu Leu Glu
245 250 255
Glu Glu Arg Glu Lys Thr Leu Thr Asn Gln Thr Glu Ala Glu Leu
260 265 270
Ala Thr Pro Glu Gly Ile Tyr Glu Arg Pro Val Asp Tyr Leu Pro
275 280 285

P1618P2C3 sequence listing.txt

Glu Arg Asp Val Tyr Glu Ser Leu Cys Arg Gly Glu Gly Val Lys
290 295 300

Leu Thr Pro Arg Arg Gln Lys Arg Leu Phe Cys Arg Tyr His His
305 310 315

Gly Asn Arg Ala Pro Gln Leu Leu Ile Ala Pro Phe Lys Glu Glu
320 325 330

Asp Glu Trp Asp Ser Pro His Ile Val Arg Tyr Tyr Asp Val Met
335 340 345

Ser Asp Glu Glu Ile Glu Arg Ile Lys Glu Ile Ala Lys Pro Lys
350 355 360

Leu Ala Arg Ala Thr Val Arg Asp Pro Lys Thr Gly Val Leu Thr
365 370 375

Val Ala Ser Tyr Arg Val Ser Lys Ser Trp Leu Glu Glu Asp
380 385 390

Asp Asp Pro Val Val Ala Arg Val Asn Arg Arg Met Gln His Ile
395 400 405

Thr Gly Leu Thr Val Lys Thr Ala Glu Leu Leu Gln Val Ala Asn
410 415 420

Tyr Gly Val Gly Gly Gln Tyr Glu Pro His Phe Asp Phe Ser Arg
425 430 435

Arg Pro Phe Asp Ser Gly Leu Lys Thr Glu Gly Asn Arg Leu Ala
440 445 450

Thr Phe Leu Asn Tyr Met Ser Asp Val Glu Ala Gly Gly Ala Thr
455 460 465

Val Phe Pro Asp Leu Gly Ala Ala Ile Trp Pro Lys Lys Gly Thr
470 475 480

Ala Val Phe Trp Tyr Asn Leu Leu Arg Ser Gly Glu Gly Asp Tyr
485 490 495

Arg Thr Arg His Ala Ala Cys Pro Val Leu Val Gly Cys Lys Trp
500 505 510

Val Ser Asn Lys Trp Phe His Glu Arg Gly Gln Glu Phe Leu Arg
515 520 525

Pro Cys Gly Ser Thr Glu Val Asp
530

<210> 333
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 333
ccaggcaca ttccaga 18

P1618P2C3 sequence listing.txt

<210> 334
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 334
ggacccttct gtgtgccag 19

<210> 335
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 335
ggtctcaaga actcctgtc 19

<210> 336
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 336
acactcagca ttgcctggta cttg 24

<210> 337
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 337
gggcacatga ctgacctgat ttatgcagag aaagagctgg tgcag 45

<210> 338
<211> 2789
<212> DNA
<213> Homo Sapien

<400> 338
gcagtattga gttttacttc ctccctttt tagtggaaaga cagaccataa 50
tcccagtgtg agtcaaattt attgtttcat ttattaccgt tttggctggg 100
ggtagttcc gacacccatca cagttgaaga gcaggcagaa ggagttgtga 150
agacaggaca atcttcttgg ggatgcgtgt cctggaaagcc agcggggcatt 200
gctctgtctt tggcctcatt gaccccaggt tctctggta aaactgaaag 250
cctactactg gcctggtgcc catcaatcca ttgatcccttgg 300
cctggggcac ccacccatggca gggcctacca ccatgcgact gagctccctg 350

P1618P2C3 sequence listing.txt

ttggctctgc tgccggcagc gcttccccctc atcttagggc tgtctctggg 400
gtcagcctg agcctcctgc gggtttcctg gatccagggg gagggagaag 450
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cccctactac agggacccca acaagcccta caagaaggtg ctcaggactc 600
ggtacatcca gacagagctg ggctccctg agcggttgct ggtggctgtc 650
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gagtggctt gacgctgcct cattgactct ctggcgtcg gctgtgtctc 1150
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accctgagaa ggaagggagc tcggcttcc tgagtgcctt cgccgtgcac 1250
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ccgggtggaa atcctaccta tgccctatgt cactgaggcc acccgagtgc 1800
agctggtgct gccactcctg gtggctgaag ctgctgcagc cccggctttc 1850
ctcgaggcgt ttgcagccaa tgcctggag ccacgagaac atgcattgct 1900

P1618P2C3 sequence listing.txt

caccctgttg ctggctacg ggccacgaga aggtggccgt ggagctccag 1950
accatttct tgggtgaag gctgcagcag cggagttaga gcgacggtag 2000
cctggacga ggctggctg gctcgctgtg cgagcagagg ccccttcca 2050
ggtgcactc atggacgtgg ttcgaagaa gcaccctgtg gacactctct 2100
tcttccttac caccgtgtgg acaaggcctg ggcccgaagt cctcaaccgc 2150
tgtcgcatga atgcacatctc tggctggcag gccttcttc cagtccattt 2200
ccaggagttc aatcctgccc tgtcaccaca gagatcaccc ccagggcccc 2250
cggggctgg ccctgacccc ccctccctc ctgggtctga cccctccgg 2300
ggggctcta tagggggag atttgaccgg caggcttctg cggagggctg 2350
cttctacaac gctgactacc tggcggcccg agcccgctg gcaggtgaac 2400
tggcaggcca ggaagaggag gaagccctgg aggggcttga ggtgatggat 2450
gtttcctcc ggttctcagg gctccacctc tttcggcccg tagagccagg 2500
gctggtgcaag aagttctccc tgcgagactg cagcccacgg ctcagtgaag 2550
aactctacca ccgctgccgc ctcagcaacc tggaggggct agggggccgt 2600
gcccagctgg ctatggctct cttttagcag gagcaggcca atagactta 2650
gcccgccctgg gggccctaac ctcattacct ttcccttgc tgcctcagcc 2700
ccaggaaggg caaggcaaga tggtgacag atagagaatt gttgctgtat 2750
ttttaaata tgaaaatgtt attaaacatg tcttctgcc 2789

<210> 339

<211> 772

<212> PRT

<213> Homo Sapien

<400> 339

Met	Arg	Leu	Ser	Ser	Leu	Leu	Ala	Leu	Leu	Arg	Pro	Ala	Leu	Pro
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Leu	Ile	Leu	Gly	Leu	Ser	Leu	Gly	Cys	Ser	Leu	Ser	Leu	Leu	Arg
				20					25				30	

Val	Ser	Trp	Ile	Gln	Gly	Glu	Gly	Glu	Asp	Pro	Cys	Val	Glu	Ala
				35				40				45		

Val	Gly	Glu	Arg	Gly	Gly	Pro	Gln	Asn	Pro	Asp	Ser	Arg	Ala	Arg
				50				55				60		

Leu	Asp	Gln	Ser	Asp	Glu	Asp	Phe	Lys	Pro	Arg	Ile	Val	Pro	Tyr
				65				70			75			

Tyr	Arg	Asp	Pro	Asn	Lys	Pro	Tyr	Lys	Lys	Val	Leu	Arg	Thr	Arg
				80				85				90		

Tyr	Ile	Gln	Thr	Glu	Leu	Gly	Ser	Arg	Glu	Arg	Leu	Leu	Val	Ala
				95					100				105	

P1618P2C3 sequence listing.txt
val Leu Thr Ser Arg Ala Thr Leu Ser Thr Leu Ala Val Ala Val
110 115 120
Asn Arg Thr Val Ala His His Phe Pro Arg Leu Leu Tyr Phe Thr
125 130 135
Gly Gln Arg Gly Ala Arg Ala Pro Ala Gly Met Gln Val Val Ser
140 145 150
His Gly Asp Glu Arg Pro Ala Trp Leu Met Ser Glu Thr Leu Arg
155 160 165
His Leu His Thr His Phe Gly Ala Asp Tyr Asp Trp Phe Phe Ile
170 175 180
Met Gln Asp Asp Thr Tyr Val Gln Ala Pro Arg Leu Ala Ala Leu
185 190 195
Ala Gly His Leu Ser Ile Asn Gln Asp Leu Tyr Leu Gly Arg Ala
200 205 210
Glu Glu Phe Ile Gly Ala Gly Glu Gln Ala Arg Tyr Cys His Gly
215 220 225
Gly Phe Gly Tyr Leu Leu Ser Arg Ser Leu Leu Leu Arg Leu Arg
230 235 240
Pro His Leu Asp Gly Cys Arg Gly Asp Ile Leu Ser Ala Arg Pro
245 250 255
Asp Glu Trp Leu Gly Arg Cys Leu Ile Asp Ser Leu Gly Val Gly
260 265 270
Cys Val Ser Gln His Gln Gly Gln Gln Tyr Arg Ser Phe Glu Leu
275 280 285
Ala Lys Asn Arg Asp Pro Glu Lys Glu Gly Ser Ser Ala Phe Leu
290 295 300
Ser Ala Phe Ala Val His Pro Val Ser Glu Gly Thr Leu Met Tyr
305 310 315
Arg Leu His Lys Arg Phe Ser Ala Leu Glu Leu Glu Arg Ala Tyr
320 325 330
Ser Glu Ile Glu Gln Leu Gln Ala Gln Ile Arg Asn Leu Thr Val
335 340 345
Leu Thr Pro Glu Gly Glu Ala Gly Leu Ser Trp Pro Val Gly Leu
350 355 360
Pro Ala Pro Phe Thr Pro His Ser Arg Phe Glu Val Leu Gly Trp
365 370 375
Asp Tyr Phe Thr Glu Gln His Thr Phe Ser Cys Ala Asp Gly Ala
380 385 390
Pro Lys Cys Pro Leu Gln Gly Ala Ser Arg Ala Asp Val Gly Asp
395 400 405
Ala Leu Glu Thr Ala Leu Glu Gln Leu Asn Arg Arg Tyr Gln Pro
410 415 420

P1618P2C3 sequence listing.txt

Arg Leu Arg Phe Gln Lys Gln Arg Leu Leu Asn Gly Tyr Arg Arg
425 430 435
Phe Asp Pro Ala Arg Gly Met Glu Tyr Thr Leu Asp Leu Leu Leu
440 445 450
Glu Cys Val Thr Gln Arg Gly His Arg Arg Ala Leu Ala Arg Arg
455 460 465
Val Ser Leu Leu Arg Pro Leu Ser Arg Val Glu Ile Leu Pro Met
470 475 480
Pro Tyr Val Thr Glu Ala Thr Arg Val Gln Leu Val Leu Pro Leu
485 490 495
Leu Val Ala Glu Ala Ala Ala Ala Pro Ala Phe Leu Glu Ala Phe
500 505 510
Ala Ala Asn Val Leu Glu Pro Arg Glu His Ala Leu Leu Thr Leu
515 520 525
Leu Leu Val Tyr Gly Pro Arg Glu Gly Gly Arg Gly Ala Pro Asp
530 535 540
Pro Phe Leu Gly Val Lys Ala Ala Ala Ala Glu Leu Glu Arg Arg
545 550 555
Tyr Pro Gly Thr Arg Leu Ala Trp Leu Ala Val Arg Ala Glu Ala
560 565 570
Pro Ser Gln Val Arg Leu Met Asp Val Val Ser Lys Lys His Pro
575 580 585
Val Asp Thr Leu Phe Phe Leu Thr Thr Val Trp Thr Arg Pro Gly
590 595 600
Pro Glu Val Leu Asn Arg Cys Arg Met Asn Ala Ile Ser Gly Trp
605 610 615
Gln Ala Phe Phe Pro Val His Phe Gln Glu Phe Asn Pro Ala Leu
620 625 630
Ser Pro Gln Arg Ser Pro Pro Gly Pro Pro Gly Ala Gly Pro Asp
635 640 645
Pro Pro Ser Pro Pro Gly Ala Asp Pro Ser Arg Gly Ala Pro Ile
650 655 660
Gly Gly Arg Phe Asp Arg Gln Ala Ser Ala Glu Gly Cys Phe Tyr
665 670 675
Asn Ala Asp Tyr Leu Ala Ala Arg Ala Arg Leu Ala Gly Glu Leu
680 685 690
Ala Gly Gln Glu Glu Glu Ala Leu Glu Gly Leu Glu Val Met
695 700 705
Asp Val Phe Leu Arg Phe Ser Gly Leu His Leu Phe Arg Ala Val
710 715 720
Glu Pro Gly Leu Val Gln Lys Phe Ser Leu Arg Asp Cys Ser Pro
725 730 735

P1618P2C3 sequence listing.txt

Arg Leu Ser Glu Glu Leu Tyr His Arg Cys Arg Leu Ser Asn Leu
740 745 750

Glu Gly Leu Gly Gly Arg Ala Gln Leu Ala Met Ala Leu Phe Glu
755 760 765

Gln Glu Gln Ala Asn Ser Thr
770

<210> 340

<211> 1572

<212> DNA

<213> Homo Sapien

<400> 340

cgaggtggc cgccaaacgtg agaggaaacc cgtgcgcggc tgcgctttcc 50
tgtccccaaag ccgttctaga cgcggaaaaa atgcttctg aaagcagctc 100
cttttgaag ggtgtatgc ttgaaagcat tttctgtgct ttgatcacta 150
tgcttaggaca cattaggatt ggtcatggaa atagaatgca ccaccatgag 200
catcatcacc tacaagctcc taacaaagaa gatatcttga aaatttcaga 250
ggatgagcgc atggagctca gtaagagctt tcgagtatac tgtattatcc 300
ttgtaaaacc caaagatgtg agtcttggg ctgcagtaaa ggagacttgg 350
accaaacact gtgacaaagc agagttctc agttctgaaa atgttaaagt 400
gtttgagtca attaatatgg acacaaatga catgtggta atgatgagaa 450
aagcttacaa atacgcctt gataagtata gagaccaata caactggtc 500
ttccttgcac gccccactac gtttgctatc attgaaaacc taaagtattt 550
tttgttaaaa aaggatccat cacagcctt ctatcttagc cacactataa 600
aatctggaga ccttgaatat gtgggtatgg aaggaggaat tgtcttaagt 650
gtagaatcaa tgaaaagact taacagcctt ctcaatatcc cagaaaagtg 700
tcctgaacag ggagggatga tttgaaagat atctgaagat aaacagctag 750
cagttgcct gaaatatgct ggagtattt cagaaaatgc agaagatgct 800
gatggaaaag atgtatttaa taccaaatct gttggctt ctattaaaga 850
ggcaatgact tatcacccca accaggtgt agaaggctgt tgttcagata 900
tggctgttac ttttaatgga ctgactccaa atcagatgca tgtgtatgt 950
tatgggtat accgccttag ggcatttggg catatttca atgatgcatt 1000
ggttttctta cctccaaatg gttctgacaa tgactgagaa gtggtagaaa 1050
agcgtgaata tgatcttgc ataggacgtg tggatgttatttgcatt 1100
gtaactacat atccaataca gctgtatgtt tcttttctt ttctaaatgg 1150
gtggcactgg tataaccaca cattaaagtc agtagtacat ttttaatga 1200

P1618P2C3 sequence listing.txt

gggtggttt tttcttaaaa acacatgaac attgtaaatg tggaaag 1250
aagtgttta agaataataa ttgc当地aaat aaactattaa taaatattat 1300
atgtgataaa ttctaaatta tgaacattag aaatctgtgg ggcacatatt 1350
tttgctgatt ggtaaaaaa tttaacagg tcttagcgt tctaagatat 1400
gcaaatgata tctctagttg tgaatttgcg attaaagtaa aacttttagc 1450
tgtgtgttcc ct当地acttct aatactgatt tatgttctaa gcctccccaa 1500
gttccaatgg atttgccttc tcaaaatgta caactaagca actaaagaaa 1550
ataaaagtga aagttgaaaa at 1572

<210> 341

<211> 318

<212> PRT

<213> Homo Sapien

<400> 341

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Ser	Ile	Phe	Cys	Ala	Leu	Ile	Thr	Met	Leu	Gly	His	Ile	Arg	Ile
					20				25			30		
Gly	His	Gly	Asn	Arg	Met	His	His	His	Glu	His	His	His	Leu	Gln
					35				40			45		
Ala	Pro	Asn	Lys	Glu	Asp	Ile	Leu	Lys	Ile	Ser	Glu	Asp	Glu	Arg
					50				55			60		
Met	Glu	Leu	Ser	Lys	Ser	Phe	Arg	Val	Tyr	Cys	Ile	Ile	Leu	Val
					65				70			75		
Lys	Pro	Lys	Asp	Val	Ser	Leu	Trp	Ala	Ala	Val	Lys	Glu	Thr	Trp
					80				85			90		
Thr	Lys	His	Cys	Asp	Lys	Ala	Glu	Phe	Phe	Ser	Ser	Glu	Asn	Val
					95				100			105		
Lys	Val	Phe	Glu	Ser	Ile	Asn	Met	Asp	Thr	Asn	Asp	Met	Trp	Leu
					110				115			120		
Met	Met	Arg	Lys	Ala	Tyr	Lys	Tyr	Ala	Phe	Asp	Lys	Tyr	Arg	Asp
					125				130			135		
Gln	Tyr	Asn	Trp	Phe	Phe	Leu	Ala	Arg	Pro	Thr	Thr	Phe	Ala	Ile
					140				145			150		
Ile	Glu	Asn	Leu	Lys	Tyr	Phe	Leu	Leu	Lys	Lys	Asp	Pro	Ser	Gln
					155				160			165		
Pro	Phe	Tyr	Leu	Gly	His	Thr	Ile	Lys	Ser	Gly	Asp	Leu	Glu	Tyr
					170				175			180		
Val	Gly	Met	Glu	Gly	Gly	Ile	Val	Leu	Ser	Val	Glu	Ser	Met	Lys
					185				190			195		
Arg	Leu	Asn	Ser	Leu	Leu	Asn	Ile	Pro	Glu	Lys	Cys	Pro	Glu	Gln
					200				205			210		

P1618P2C3 sequence listing.txt

Gly Gly Met Ile Trp Lys Ile Ser Glu Asp Lys Gln Leu Ala Val
215 220 225
Cys Leu Lys Tyr Ala Gly Val Phe Ala Glu Asn Ala Glu Asp Ala
230 235 240
Asp Gly Lys Asp Val Phe Asn Thr Lys Ser Val Gly Leu Ser Ile
245 250 255
Lys Glu Ala Met Thr Tyr His Pro Asn Gln Val Val Glu Gly Cys
260 265 270
Cys Ser Asp Met Ala Val Thr Phe Asn Gly Leu Thr Pro Asn Gln
275 280 285
Met His Val Met Met Tyr Gly Val Tyr Arg Leu Arg Ala Phe Gly
290 295 300
His Ile Phe Asn Asp Ala Leu Val Phe Leu Pro Pro Asn Gly Ser
305 310 315
Asp Asn Asp

<210> 342

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 342

tccccaaagcc gttcttagacg cgg 23

<210> 343

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 343

ctgggttcttc cttgcacg 18

<210> 344

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 344

gcccaaatgc cctaaggcgg tataacccc 28

<210> 345

<211> 50

<212> DNA

<213> Artificial Sequence

P1618P2C3 sequence listing.txt

<220>
<223> Synthetic oligonucleotide Probe

<400> 345
gggtgtatg cttgaaagca ttttctgtgc tttgatcact atgcttaggac 50

<210> 346
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 346
gggatgcagg tggtgtctca tgggg 25

<210> 347
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 347
ccctcatgta ccggctcc 18

<210> 348
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 348
ggattctaat acgactcact atagggctca gaaaagcgca acagagaa 48

<210> 349
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 349
ctatgaaatt aaccctcact aaagggatgt cttccatgcc aaccttc 47

<210> 350
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 350
ggattctaat acgactcact atagggcggc gatgtccact gggctac 48

<210> 351
<211> 48

P1618P2C3 sequence listing.txt

<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 351
ctatgaaatt aaccctcact aaagggacga ggaagatggg cggatgg 48

<210> 352
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 352
ggatttaat acgactcact atagggcacc cacgcgtccg gctgctt 47

<210> 353
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 353
ctatgaaatt aaccctcact aaagggacgg gggacaccac ggaccaga 48

<210> 354
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 354
ggatttaat acgactcact atagggcttg ctgcggttt tggccctg 48

<210> 355
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 355
ctatgaaatt aaccctcact aaagggagct gccgatccc ctggatt 48

<210> 356
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 356
ggatttaat acgactcact atagggcgga tcctggccgg cctctg 46

P1618P2C3 sequence listing.txt

<210> 357
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 357
ctatgaaatt aaccctcaact aaagggagcc cgggcattgtt ctcagttt 48

<210> 358
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 358
ggattctaat acgactcaact atagggcggg aagatggcga ggaggag 47

<210> 359
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 359
ctatgaaatt aaccctcaact aaagggacca aggccacaaa cgaaaaatc 48

<210> 360
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 360
ggattctaat acgactcaact atagggctgt gctttcattt tgccagta 48

<210> 361
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 361
ctatgaaatt aaccctcaact aaagggaggg tacaattaag gggtggat 48

<210> 362
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

P1618P2C3 sequence listing.txt

<400> 362
ggattctaat acgactcact atagggcccg cctcgctcct gctcctg 47

<210> 363
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 363
ctatgaaatt aaccctcact aaagggagga ttgccgcac cctcacag 48

<210> 364
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 364
ggattctaat acgactcact atagggcccc tcctgccttc cctgtcc 47

<210> 365
<211> 48
<212> DNA
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<220>
<223> Synthetic Oligonucleotide Probe

<400> 365
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<210> 366
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
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<400> 366
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<210> 367
<211> 47
<212> DNA
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<220>
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<400> 367
ctatgaaatt aaccctcact aaagggacag acggggcaga gggagtg 47

<210> 368
<211> 47
<212> DNA
<213> Artificial Sequence

P1618P2C3 sequence listing.txt

<220>
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<400> 368
ggattctaat acgactcact atagggccag gaggcgtag gagaaac 47

<210> 369
<211> 48
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 369
ctatgaaatt aaccctcact aaaggaaag acatgtcatc gggagtgg 48

<210> 370
<211> 48
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 370
ggattctaat acgactcact atagggccgg gtggagggtgg aacagaaa 48

<210> 371
<211> 48
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 371
ctatgaaatt aaccctcact aaaggacac agacagagcc ccatacgc 48

<210> 372
<211> 47
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 372
ggattctaat acgactcact atagggccag ggaaatccgg atgtctc 47

<210> 373
<211> 48
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 373
ctatgaaatt aaccctcact aaaggagta agggatgcc accgagta 48

<210> 374

P1618P2C3 sequence listing.txt

<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 374
ggattctaat acgactcact atagggccag ctacccgcag gaggagg 47

<210> 375
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 375
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<210> 376
<211> 997
<212> DNA
<213> Homo Sapien

<400> 376
cccacgcgtc cgatcttacc aacaaaacac tcctgaggag aaagaaagag 50
agggagggag agaaaaagag agagagagaa acaaaaaacc aaagagagag 100
aaaaaaatgaa ttcatctaaa tcatctgaaa cacaatgcac agagagagga 150
tgcttccttt cccaaatgtt cttatggact gttgctggta tccccatcct 200
atttctcagt gcctgtttca tcaccagatg ttttgtgaca tttcgcatct 250
ttcaaacctg tgatgagaaa aagtttcagc tacctgagaa tttcacagag 300
ctctcctgct acaattatgg atcaggttca gtcaagaatt gtgtccatt 350
gaactggaa tattttcaat ccagctgcta cttctttct actgacacca 400
tttcctggc gttaaagttt aagaactgct cagccatggg ggctcacctg 450
gtggttatca actcacagga ggagcagggaa ttcccttcct acaagaaacc 500
taaaatgaga gagttttta ttggactgtc agaccaggaa gtcgagggtc 550
agtggcaatg ggtggacggc acaccttga caaagtctct gagcttctgg 600
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gagagactct tcaaacccaa ggcaaaattt gaatgatgtt acctgtttcc 700
tcaattatcc tcggatttgt gaaatggtag gaataaatcc tttgaacaaa 750
ggaaaatctc tttaagaaca gaaggcaca ctc当地atgtt taaagaaggg 800
agagcaagaa catggccaca cccaccgccc cacacgagaa atttgcgc 850
tgaacttcaa aggacttcat aagtatttgt tactctgata caaataaaaa 900

P1618P2C3 sequence listing.txt

taagtagttt taaatgttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 950

aaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaa 997

<210> 377

<211> 219

<212> PRT

<213> Homo Sapien

<400> 377

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Cys Phe Ser Ser Gln Met Phe Leu Trp Thr Val Ala Gly Ile Pro
20 25 30

Ile Leu Phe Leu Ser Ala Cys Phe Ile Thr Arg Cys Val Val Thr
35 40 45

Phe Arg Ile Phe Gln Thr Cys Asp Glu Lys Lys Phe Gln Leu Pro
50 55 60

Glu Asn Phe Thr Glu Leu Ser Cys Tyr Asn Tyr Gly Ser Gly Ser
65 70 75

Val Lys Asn Cys Cys Pro Leu Asn Trp Glu Tyr Phe Gln Ser Ser
80 85 90

Cys Tyr Phe Phe Ser Thr Asp Thr Ile Ser Trp Ala Leu Ser Leu
95 100 105

Lys Asn Cys Ser Ala Met Gly Ala His Leu Val Val Ile Asn Ser
110 115 120

Gln Glu Glu Gln Glu Phe Leu Ser Tyr Lys Lys Pro Lys Met Arg
125 130 135

Glu Phe Phe Ile Gly Leu Ser Asp Gln Val Val Glu Gly Gln Trp
140 145 150

Gln Trp Val Asp Gly Thr Pro Leu Thr Lys Ser Leu Ser Phe Trp
155 160 165

Asp Val Gly Glu Pro Asn Asn Ile Ala Thr Leu Glu Asp Cys Ala
170 175 180

Thr Met Arg Asp Ser Ser Asn Pro Arg Gln Asn Trp Asn Asp Val
185 190 195

Thr Cys Phe Leu Asn Tyr Phe Arg Ile Cys Glu Met Val Gly Ile
200 205 210

Asn Pro Leu Asn Lys Gly Lys Ser Leu
215

<210> 378

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

P1618P2C3 sequence listing.txt

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<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 379
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<210> 380
<211> 49
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 380
ggaggactgt gccaccatga gagactcttc aaacccaagg caaaattgg 49

<210> 381
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 381
gcagatttg aggacagcca cctcca 26

<210> 382
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 382
ggccttgcag acaaccgt 18

<210> 383
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 383
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<210> 384
<211> 20
<212> DNA
<213> Artificial Sequence

P1618P2C3 sequence listing.txt

<220>
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<400> 384
cagctgccct tccccaaacca 20

<210> 385
<211> 18
<212> DNA
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<220>
<223> Synthetic oligonucleotide probe

<400> 385
catcaaggcgc ctctacca 18

<210> 386
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 386
cacaaactcg aactgcttct g 21

<210> 387
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 387
gggccatcac agctccct 18

<210> 388
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 388
gggatgtggt gaacacagaa ca 22

<210> 389
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 389
tgccagctgc atgctgccag tt 22

<210> 390
<211> 20

P1618P2C3 sequence listing.txt

<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 390
cagaaggatg tcccggtggaa 20

<210> 391
<211> 17
<212> DNA
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<220>
<223> Synthetic oligonucleotide probe

<400> 391
gccgcgtgtcc actgcag 17

<210> 392
<211> 21
<212> DNA
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<220>
<223> Synthetic oligonucleotide probe

<400> 392
gacggcatcc tcagggccac a 21

<210> 393
<211> 20
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<220>
<223> Synthetic oligonucleotide probe

<400> 393
atgtccctcca tgcccacgcg 20

<210> 394
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 394
gagtgcgaca tcgagagctt 20

<210> 395
<211> 18
<212> DNA
<213> Artificial sequence

<220>
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<400> 395
ccgcagcctc agtgtatga 18

P1618P2C3 sequence listing.txt

<210> 396
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
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<400> 396
gaagagcaca gctgcagatc c 21

<210> 397
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 397
gaggtgtcct ggcttggta gt 22

<210> 398
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 398
cctctggcgc ccccactcaa 20

<210> 399
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 399
ccaggagagc tggcgatg 18

<210> 400
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 400
gcaaatttag ggctcactag aga 23

<210> 401
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

P1618P2C3 sequence listing.txt

<400> 401
cacagagcat ttgtccatca gcagttcag 29

<210> 402
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
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<400> 402
ggcagagact tccagtcact ga 22

<210> 403
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 403
gccaagggtg gtgttagata gg 22

<210> 404
<211> 24
<212> DNA
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<220>
<223> Synthetic oligonucleotide probe

<400> 404
caggccccct tgatctgtac ccca 24

<210> 405
<211> 23
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 405
gggacgtgct tctacaagaa cag 23

<210> 406
<211> 26
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 406
caggcttaca atgttatgtat cagaca 26

<210> 407
<211> 31
<212> DNA
<213> Artificial Sequence

P1618P2C3 sequence listing.txt

<220>
<223> Synthetic oligonucleotide probe

<400> 407
tattcagagt tttccattgg cagtgccagt t 31

<210> 408
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 408
tctacatcg cctctctgcg c 21

<210> 409
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 409
cgatcttcacccaggag cg 23

<210> 410
<211> 18
<212> DNA
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<220>
<223> Synthetic oligonucleotide probe

<400> 410
gccaggcctc acattcgt 18

<210> 411
<211> 23
<212> DNA
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<220>
<223> Synthetic oligonucleotide probe

<400> 411
ctcccctgaat ggcagcctga gca 23

<210> 412
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 412
aggtgttat taagggccta cgct 24

<210> 413

P1618P2C3 sequence listing.txt

<211> 19
<212> DNA
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<220>
<223> Synthetic oligonucleotide probe

<400> 413
cagagcagag ggtgccttg 19

<210> 414
<211> 21
<212> DNA
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<220>
<223> Synthetic oligonucleotide probe

<400> 414
tggcgagtc ccctcttggc t 21

<210> 415
<211> 22
<212> DNA
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<220>
<223> Synthetic oligonucleotide probe

<400> 415
ccctgtttcc ctagcatca ct 22

<210> 416
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 416
tcaacccctg accctttcct a 21

<210> 417
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 417
ggcaggggac aagccatctc tcct 24

<210> 418
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 418

P1618P2C3 sequence listing.txt

gggactgaac tgccagcttc 20
<210> 419
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 419
gggccctaac ctcattacct tt 22

<210> 420
<211> 23
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<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 420
tgtctgcctc agccccagga agg 23

<210> 421
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 421
tctgtccacc atcttgccctt g 21

<210> 422
<211> 3554
<212> DNA
<213> Homo sapien

<400> 422
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cttcttcctg ctgctgcttt tcaggggctg cctgataggg gctgtaaatc 150
tcaaaatccag caatcgaacc ccagtggtagc aggaatttga aagtgtggaa 200
ctgtcttgca tcattacgga ttccgcagaca agtgacccca ggatcgagtg 250
gaagaaaattt caagatgaac aaaccacata tgtgtttttt gacaacaaaa 300
ttcagggaga cttggcggtt cgtagcagaaa tactggggaa gacatccctg 350
aagatctgga atgtgacacg gagagactca gcccattatc gctgtgaggt 400
cggtgctcga aatgaccgca agggaaatttga ttagattgtg atcgaggtaa 450
ctgtgcaagt gaagccagtg acccctgtct gttagatgcc gaaggctgta 500
ccagtaggca agatggcaac actgcactgc caggagagtg agggccaccc 550

P1618P2C3 sequence listing.txt

ccggcctcac tacagctggt atcgcaatga tgtaccactg cccacggatt 600
ccagagccaa tcccagattt cgcaattttt ctttccactt aaactctgaa 650
acaggcactt tggtgttcac tgctgttcac aaggacgact ctgggcagta 700
ctactgcatt gcttccaatg acgcaggctc agccaggtgt gaggagcagg 750
agatggaagt ctatgacctg aacattggcg gaattattgg gggggttctg 800
gttgtccttg ctgtactggc cctgatcacg ttgggcacatc gctgtgcata 850
cagacgtggc tacttcatca acaataaaaca ggatggagaa agttacaaga 900
acccagggaa accagatgga gttaactaca tccgcactga cgaggaggc 950
gacttcagac acaagtcatc gtttgtgatc tgagacccgc ggtgtggctg 1000
agagcgcaca gagcgcacgt gcacataacct ctgcttagaaa ctcctgtcaa 1050
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ttttcgaaaa ggc当地ggattt gaccactact cttcttactc taacaagcca 1150
catgaataga agaattttcc tcaagatgga cccggtaaat ataaccacaa 1200
ggaagcgaaa ctgggtgcgt tcactgagtt gggttcctaa tctgtttctg 1250
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cagcagccac gacagcacca tgtgagatgg cgaggtggct ggacagcacc 1400
agcagcgcac cccggcggga acccagaaaa ggcttcttac acagcagcct 1450
tacttcatcg gcccacagac accaccgcag tttcttctta aaggctctgc 1500
tgatcggtgt tgcagtgcc attgtggaga agcttttgg atcagcattt 1550
tgtaaaaaca accaaaatca ggaaggtaaa ttggttgctg gaagagggat 1600
cttgcctgag gaaccctgct tgtccaacag ggtgtcagga tttaaggaaa 1650
accttcgtct taggctaagt ctgaaatggt actgaaatat gctttctat 1700
gggtcttggatt tattttataa aattttacat ctaaattttt gctaaggatg 1750
tattttgatt attgaaaaga aaatttctat ttaaactgta aatataattgt 1800
catacaatgt taaataacct attttttaa aaaagttcaa cttaaggtag 1850
aagttccaag ctactagtgt taaattggaa aatatcaata attaagagta 1900
ttttacccaa ggaatccctt catgaaagtt tactgtgatg ttccctttct 1950
cacacaagtt ttagcctttt tcacaaggaa actcataactg tctacacatc 2000
agaccatagt tgcttaggaa acctttaaaa attccagttt agcaatgttg 2050
aaatcagttt gcatctcttc aaaagaaaacc tctcaggtta gctttgaact 2100
gcctcttcctt gagatgacta ggacagtctg tacccagagg ccacccagaa 2150

P1618P2C3 sequence listing.txt

gccctcagat gtacatacac agatgccagt cagctcctgg ggttgcgcca 2200
ggcgcccccgg ctctagctca ctgttgccctc gctgtctgcc aggaggccct 2250
gccatccttg ggccctggca gtggctgtgt cccagtgagc tttactcacg 2300
tggcccttgc ttcatccagc acagctctca ggtgggcact gcagggacac 2350
tggtgtcttc catgttagcgt cccagcttg ggctcctgta acagacctct 2400
tttggttat ggatggctca caaaataggg cccccaatgc taaaaaaaa 2450
tttaagttt gtttaattat ttgttaagat tgtctaaggc caaaggcaat 2500
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cccaactgttc ctcttgcca cagagaaagc acccagacgc cacaggctct 2600
gtcgcatttc aaaacaaacc atgatggagt ggcggccagt ccagcctttt 2650
aaagaacgtc aggtggagca gccaggtgaa aggcctggcg gggagggaaag 2700
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gccttattgc cccctttcttataccctaa aaccccttac actagtgcac 3300
tgggaaccag gtctgaaaaaa gtagagagaa gtgaaagtag agtctggaa 3350
gtagctgcct ataactgaga ctagacggaa aaggaataact cgtgtatccc 3400
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gccttggat ggatgttgct gtacacagat gctacagact tgtactaaca 3500
caccgttaatt tggcatttgc ttaacctcat ttataaaaagc ttcaaaaaaaaa 3550
cccc 3554

<210> 423
<211> 310
<212> PRT
<213> Homo Sapien

P1618P2C3 sequence listing.txt

<400> 423
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Pro Asp Phe Phe Leu Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly
20 25 30
Ala Val Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu
35 40 45
Phe Glu Ser Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr
50 55 60
Ser Asp Pro Arg Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr
65 70 75
Thr Tyr Val Phe Phe Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly
80 85 90
Arg Ala Glu Ile Leu Gly Lys Thr Ser Leu Lys Ile Trp Asn Val
95 100 105
Thr Arg Arg Asp Ser Ala Leu Tyr Arg Cys Glu Val Val Ala Arg
110 115 120
Asn Asp Arg Lys Glu Ile Asp Glu Ile Val Ile Glu Leu Thr Val
125 130 135
Gln Val Lys Pro Val Thr Pro Val Cys Arg Val Pro Lys Ala Val
140 145 150
Pro Val Gly Lys Met Ala Thr Leu His Cys Gln Glu Ser Glu Gly
155 160 165
His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn Asp Val Pro Leu
170 175 180
Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn Ser Ser Phe
185 190 195
His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala Val His
200 205 210
Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp Ala
215 220 225
Gly Ser Ala Arg Cys Glu Glu Gln Glu Met Glu Val Tyr Asp Leu
230 235 240
Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val
245 250 255
Leu Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly
260 265 270
Tyr Phe Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro
275 280 285
Gly Lys Pro Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly
290 295 300
Asp Phe Arg His Lys Ser Ser Phe Val Ile

<210> 424
<211> 39
<212> PRT
<213> Artificial sequence

<220>
<223> EGF Receptor Motif

<220>
<221> Unsure
<222> 1, 3-9, 11-15, 17-26, 28, 30-34, 36-37, 39
<223> Unknown amino acid

<400> 424
Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa
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Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Cys Xaa
20 25 30
Xaa Xaa Xaa Xaa Gly Xaa Xaa Cys Xaa
35